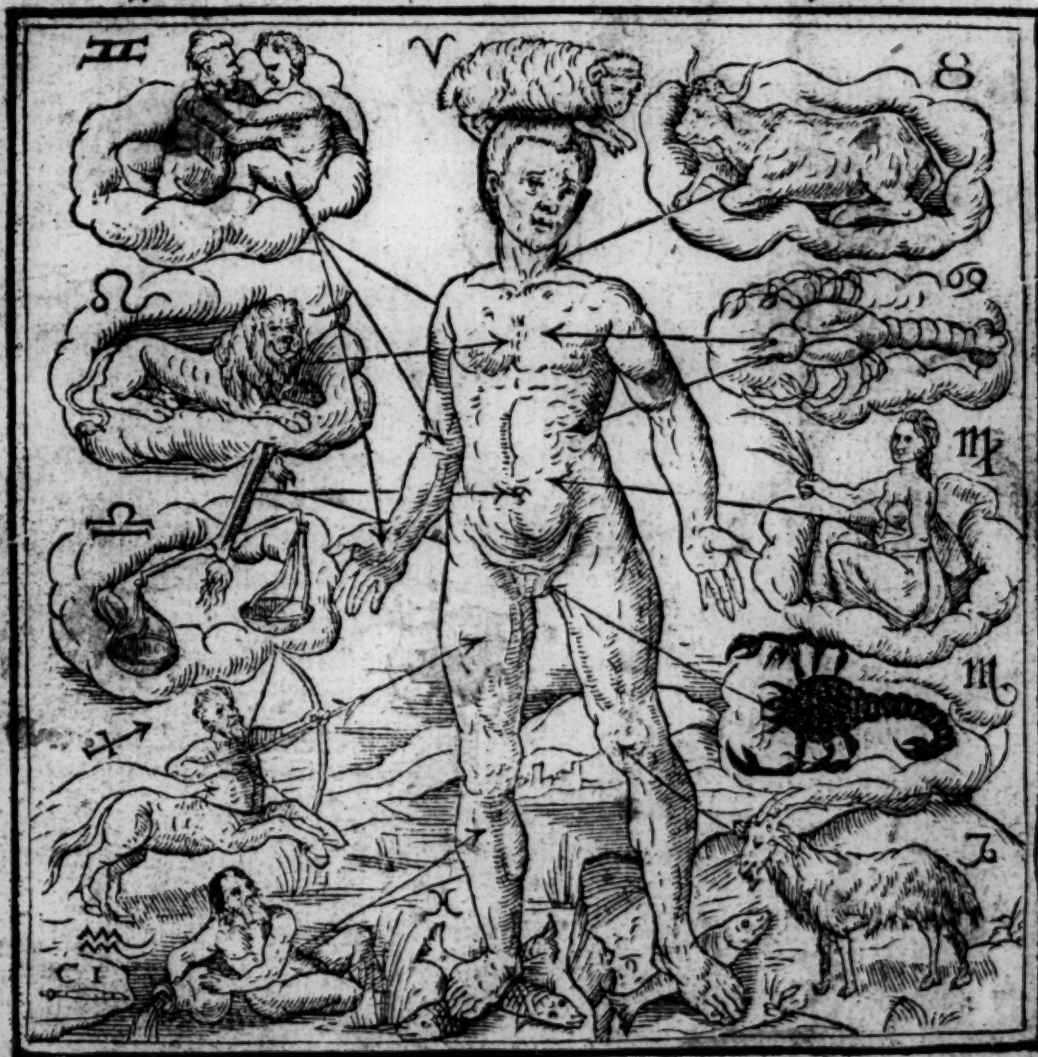


Prognostication euerlasting of right
 good effect, fruitfully augmented by the author, containyng
 playne, bryefe, pleasaunt, chosen rules to iudge the weather, by the
 Sunne, Moone, Starres, Cometes, Raynebowe, Thunder, Cloydes,
 with other extraordinary tokens, not omitting the aspectes of
 Planets, with a bryef iudgement for euer, of Plentie, Lacke,
 Sickenesse, Dearth, Warres. &c. opening also many
 naturall causes worthy to be knownen.

To these and other nowe at the laste, are ioyned diuers generall
 pleasant Tables, with many compendious Rules, easye
 to be had in memozy, manifolde wayes profitable to all ma-
 ner of men of vnderstanding, published by Leonard

Digges, Gentleman.

Thos. Digges, 17th Son, defended the Copernican system in an



addition to his reprint of this tract, in 1594. Bellamy

Imprinted at London by Thomas Marshe.

ANNO. 1574.

11
c/

NOTICE TO THE PUBLIC

2000

☞ To the right honorable Sir Edwarde

Fines, of the noble order of the Garter knight, Lord Clinton
and Saye, &c, Leonard Digges, vvisheth continuance of health,
and daily encrease of honour.



After my trouble (right honorable and my
singuler good Lord) my dutie made me ca-
refull to procure y some fruite of my study
might declare me thankefully minded to-
ward your Lordshippe among other hono-
rable, to whome I owe my selfe with al my
endeuour and frutes of study. For the per-
formance whereof, not onely your Lordes-
ships talke moued of a Prognostication, see-
med then to make that argument fittest, but also the manif. & im-
perfections & manifold errors yearly committed, do craue the ayde
of some that were both willing & able to performe the truth in like
matters. As I thought it then for these causes worthy the labour
truly and by itselfe to collecte many things both necessary & pleasant,
as well for nobilitie as other, and to adioyne them to my generall
Prognostication imprinted in the yeare. 1553. augmenting diuers
wayes the same, and more orderly placing suche as were befoze set
forth: so sithens calling to mynde other right pleasant rules & con-
clusions, likewise pertaining to the purpose aforesalde, and bearing
still in mynde a like thankefull remembraunce of your goodnes, I
thought it mete at this edition to encrease it once againe, & by pre-
senting it vnto your honour, declaring the continuance of my right
harty zeale, to acknowledge your goodnesse. And therfoze in the o-
ther your Lordship receiued in one little booke, by infallible rules
taught for euer a trueth of such things as befoze were put forth in
many volumes by other, eche for one yeares profite only, wherby y
authoys were of necessitie cōpelled to make a yearely renewing of
them, with yearely encrease of errors, and further you had in it di-
uers other conclusions general of none befoze attempted: so in this
your Lordship shall yet receiue y same in sundry places more plain-
ly and fully set forth, & other not vnprofitably adioyned, as in peru-
sing shall euidently appeare. These with my most humble thanks
for your great goodnes all maner wayes declared toward me, ac-
cording to my duty I do present vnto your honour, and beseeche you
in good worth to receiue: and haue willed them to passe vnder pro-
tection of your Lordships name, that if to any man any commoditie
shal ensue thereby, such as receiue it may haue cause to further me
in yelding thanks to your honour.

To the Reader.



Thauyde (gentle Reader) the pearely care, trauayles and paynes of other, with the confusions, repugnances, and manifold errors partly by negligence, and ofte through ignorance committed: I haue agayns briefly set forth a Prognostication generall, for euer to take effect, adioyning thereto diuerse profitable collections, and many pleasant conclusions, easie of all wysling ingenious to be perceiued. Here note (Reader) wheras the eleuate Pole & Meridian should be considered, in this worke it is performed for London, because I wishe this Meridian, situation of clime the exacte truthe of things. If any pearely practises in lyke matters agree not with my calculations, be assured they are false, or at the least for other Elenations of Meridians supputated, and therefore little seruing thy purpose. And that the late rude inuentions, & grosse deuises of some this yeare, and twoo yeares past, published might be of them perceiued, then filed, and to serue to some profite: I haue purposed euer nowe to put forth a booke named Pananges, well seruing their turne, and so generally and most exactly all Europe, pleasant, profitable to the learned, and no small delight to all manner of mē. An other booke is also already come to thy hands, titled Tectonicon, a treasure vnto the Masons, Carpenters, Landmeaters, correcting their olde errors wrongfully reckened of the as infallible groundes, teaching faithfully, sufficiently, and very briefly, the true mesuration of all manner land, tymber, stone, boord, glasse, &c. And at the end contelning an instrument Geometrical appointed to their vse. Take in good worth these laboures (loving Reader) and looke shortly for the pleasant fruites Mathematical, euen such as haue bene promysed by my friends and partly by me. Neither shall my desire to profit here stay: but entendeth farther to procede, if these seeme accepted. As the good will of Printers had not kept the foresayde from you: so I trust the willing minde and excellency of Thomas Gemini, shall bring them shortly vnto you.

Certes my hope is while life remaineth, not to be vnfruitfull to this common wealth, with study and practise.

Against the reproviers of Astronomie, Fol. i

and Science Mathematicall.



I Am diuersly occasioned (louing Reader) somewhat to wryte in the commendation of the Mathematicals which needed not, but onely to open the foolish rashnes & rashe foolishnes of such, which of late haue in wryting dysprayed these goodlye Artes. It is an olde sayde sawe, & true: Scientia

Vituperant
qui simpli-
citer eas ig-
norant.

non habet inimicum nisi ignorantem. But to auoyde tediousnes, and chiefly for the more satisfiing, I referre all of that sort, which haue tasted any learning (the rest not regarded) to the first parte of famous Guido Bonatus de vtilitate Astronomiae in communi, where he wryteth contra illos, qui dicunt quod scientia Stellarum non potest sciri ab aliquo: contra illos, qui dixerunt quod scientia Stellarum non est vtilis, sed potius damnosa &c. contra illos, qui contradicunt iudicis Astronomiae, & qui reprehendunt eam, nescientes dignitatem eius, eo quod non est lucratua. Also for breuitie I appointe all nice deuines, or (as Melancthon termeth them) Epicurei theologi, to his hie cōmendations touching Astronomie, vttered in his epistles to Simon Grineus, to Schonerus, & to the peroration of Cardanus. b. bookes, where he shewed how far wide they alledge the scriptures against the Astronomer, which make wholly with the Astronomer. Melancthon wryteth & affirmeth. Arrogantia esse cum summa stultitia coniuncta, venari choragium aliquod glorie ex insectatione artium, quae sunt graui auctoritate doctorū, & prudentiū receptae, he calleth it manifestum insaniae genus, declaring quod magis opus habet medicis, quam geometris, aduising the learned not to giue eare vnto their folly. Sinanus (ait) vnacum Epicuro ineptire. Which counsel to, I folow. Now therfore, ye enemies of all good doctrine, either giue an ouerthrowe & that with your penne, or let famous Guido or learned Melancthon satisfie. If neither: certes I will hozely (God sparing life) take some paine in publishing the wonderfull vnknowne pleasaunt profits of the dysprayed highe knowledges, & by that meanes to enforce silence.

Now in few for thy encouragement in these, thus I say & truly, the ingenious, learned, & well experienced circūspecte student Mathematicall, receiueth daily in his witty practises more pleasaunt ioye of minde, then all thy goodes (howe rich so euer thou be) can at any time purchase. Id tantum quod pulchrum est, quod purum est quod diuinum est, nihil mortale sapiens dulci ardore amplectitur.

Stulti ne-
gligunt &
contemnūt:
qui contra-
dicit ambi-
tiosus est,
qui maledi-
cit, fatuus.

1. lo. **V**t multa paucis crede mihi extingui dulci erit Mathematicarum
artium labore. **N**owe to ende, that learned Guido, that excellence
Guido Bonatus, sheweth what Astrologie or Astronomie is, and
ought not saith he, by any meane to be reprehēded, in that the most
wise, yea, the holy fathers haue practised that science. **H**e proueth
it one of the chiefe sciences Mathematicall, by the aucthoritie of the
best learned, and by Aristotle in his Posteriorum. **N**ow commeth
it to passe louing Reader, seeing it is a noble science, **E**t Scientia est
notitia vera conclusionum, quibus propter demonstrationem fir-
miter assentimur, that it is counted vayne, and of so smal strength,
the secret truches and moste pleasant profiteth therein not despyed,
yea vtterly dispised and of some busy bicing bodiees relected as very
lies: **L**et no man doubt ignorance, the great enemy of all pure
learning hath wrought this. **N**am incertam vocat hanc artem
vulgus, propter erroris non arti, sed hominum indoctissimorum
inscitia, & temerati imputandos, qui citra delectum omnia effu-
tiunt. **T**hus I leaue indigestly farther to trouble: saueur me as
I tender the furtherance of good learnings, positable to a com-
mon wealth. **F**are moste hartely well, vnsayned good Christian
Reader.



The Contentes of this Booke. Fol. 2



From the nette side to the fiftie leafe, are contey-
ned the formes of a Quadrant, Square, Circle,
Quantities, with a figure truly placing the said
Quantities in the heauen.

From the fiftie to the thirtene, ye haue the iud-
gement of weathers by the Sunne, Moone,
Starres, Cometes, Rainbowe, Thunder, Cloudes, with extraor-
dinary tokens and aspectes of Planetes. &c.

The 13. 14. 15. and 16. leafe, shewe the causes of suche alteration
according to Aristotle. First of the Rainbowe, then Raine, Froste,
Dewe, Snowe, Hayle, Windes, Earthquakes, Thunders, Ligh-
teninges, Cometes, Sunne and Moone eclipsed, Quantities of the
Planets and their placing, ocularly demonstrated.

The 17. the aspectes of the Moone and her signification in the 12.
celestiall Signes.

The 18. 19. and 20. What Signe the Moone is in and shalbe for
euer, the meete time to let bloud, to purge, to bathe, to fall timber,
to sowe, to plante, to grasse, cutte, gelde. &c.

The 20. 21. haue Tables for the Sundaye letter, for the Gol-
den number of Paine, for the Epact and mouable feastes, manye
wayes conducting.

The 22. 23. and 24. the age of the Moone, the chaunge and quar-
ters for euer are declared, the Ebbing and Flowings, the break-
of the daye, the Sunne risynge, the length of the daye and night, the
Twilight for all the yeare.

The 25. 26. and 27. shewe exacte pleasant wayes for the daye and
night hower, with composition of meete instrumentes.

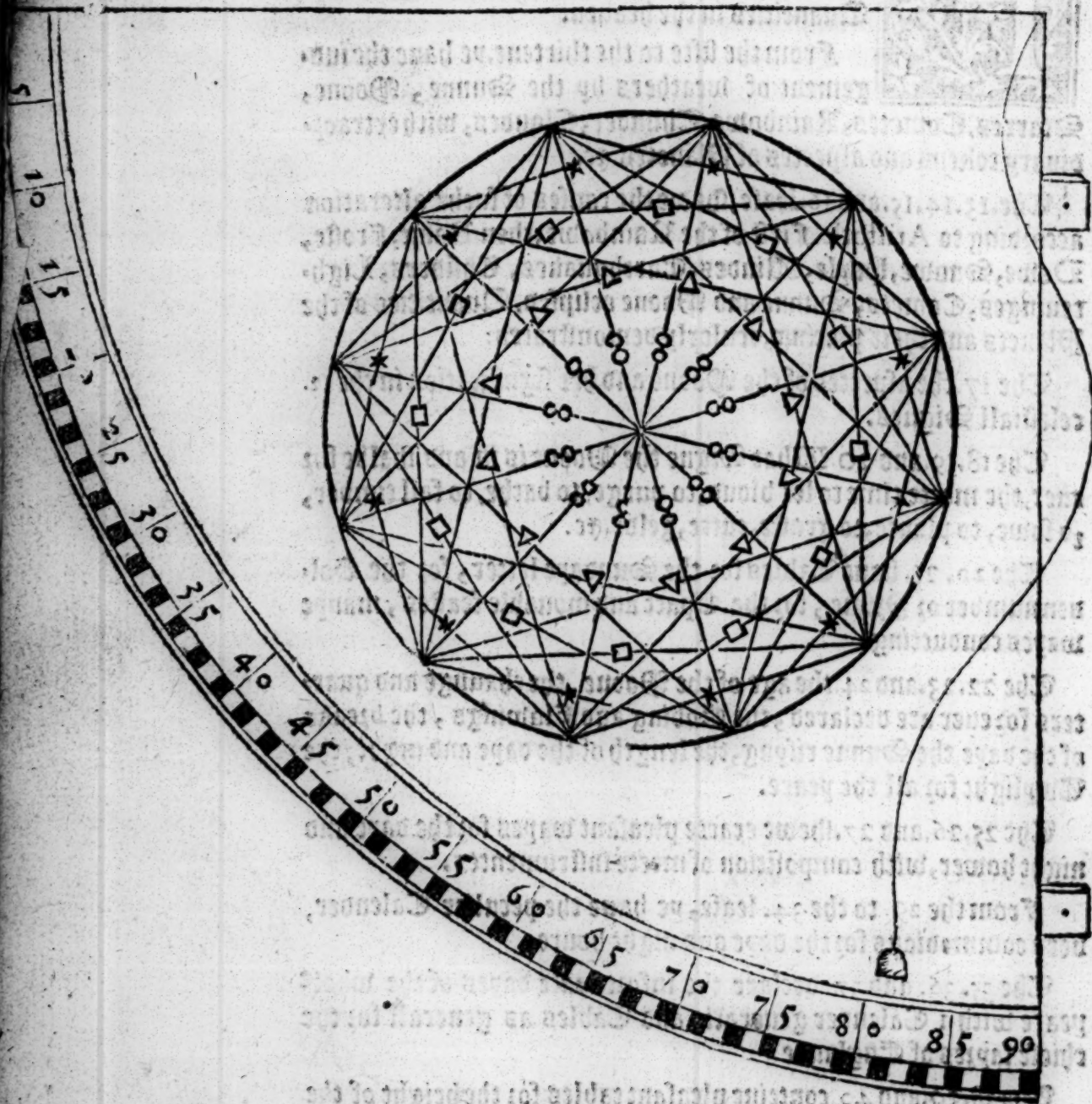
From the 29. to the 34. leafe, ye haue the peculier Calender,
very commodious for the daye and night houre.

The 35. 36. and 37. declare the infortunate dayes of the whole
yeare with a Calender generall, and Tables as generall for the
chiefe sayres of Englande.

The 38. 39. and 40. containe pleasant tables for the height of the
Sunne at all houres, for right and squire shadowe, conducting also
to the composition of many instrumentes &c.

The 40. and 41. leafe, Collections easy to be had in memory.

This Quadrant is appointed here to get exactly the
length of Staffe and Squire shadow, how vnleuell so euer
the ground be, as I haue sufficiently instructed in
the eight and thirty leafe.

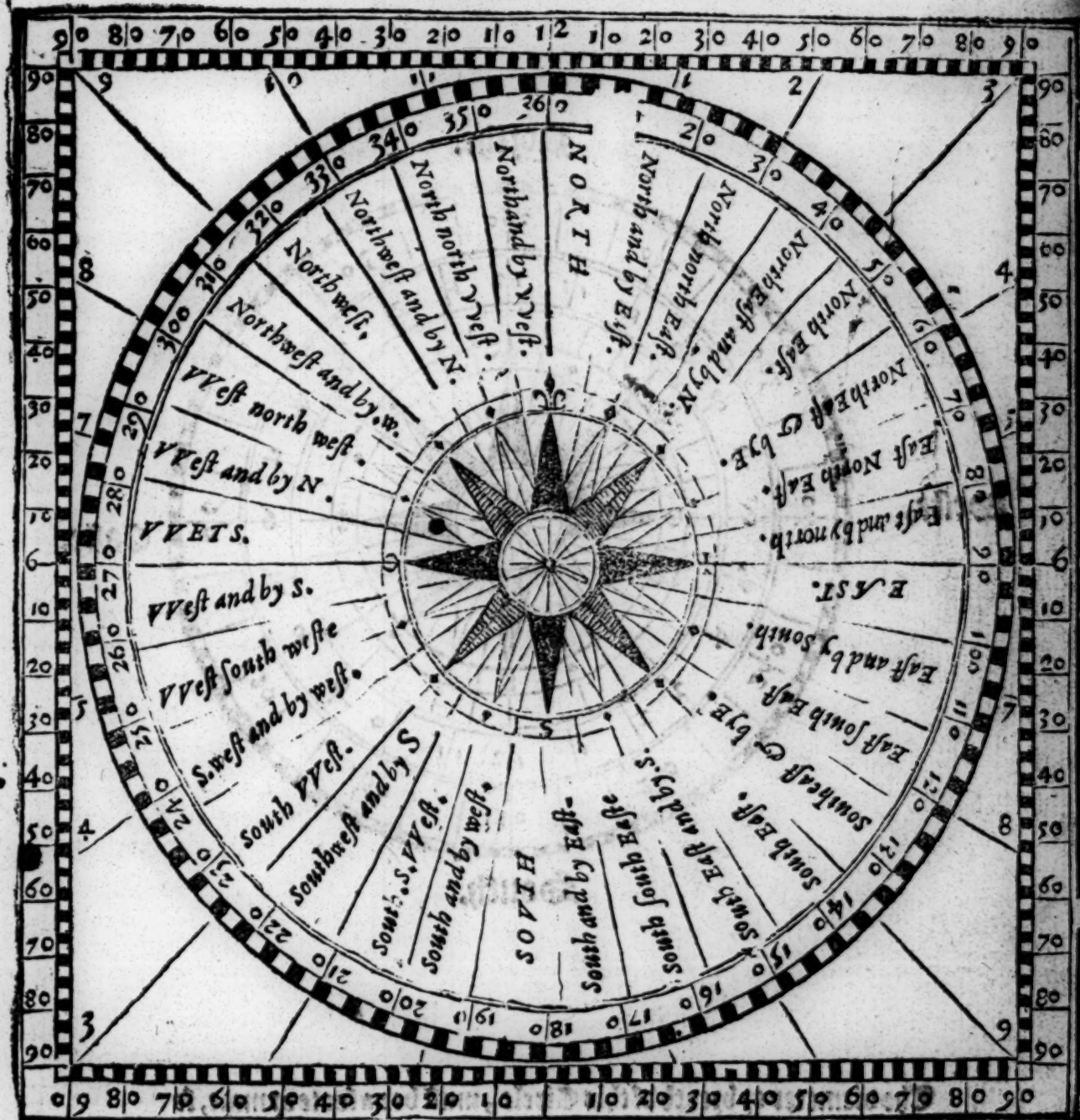


If ye list not to make a Quadrant, ye may vse this very well: ad-
ding a plumbmet and lyne, with lightes or otherwise.

This

This Instrument must be made in a plain fine me-
 tall plate, a foote or more square. Then it is pleasant for the hour
 of the day and night, either to be fixed about your house, or
 moueable if ye list, by a neple to be placed where and
 when ye will. The.26. leafe sheweth the making. .

Fol. 3

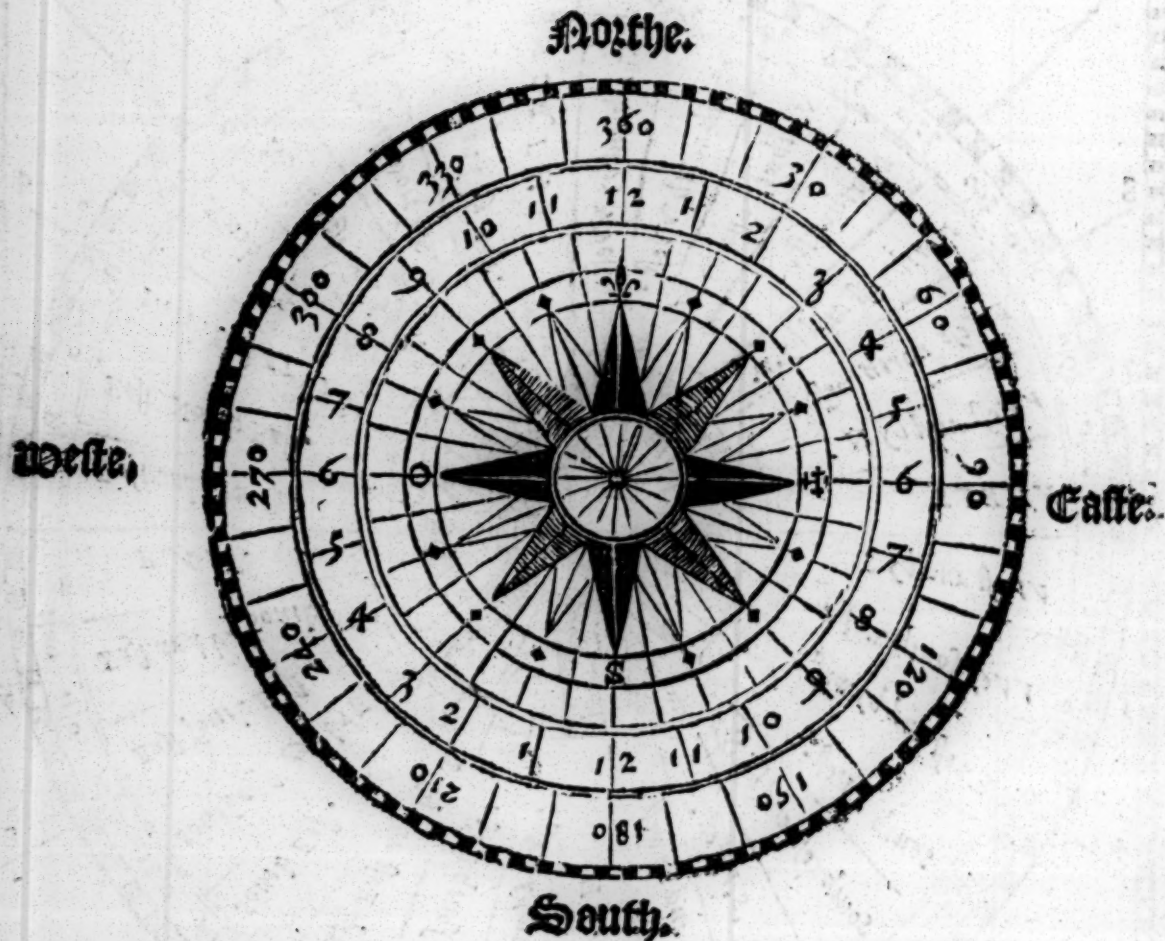


The good Mariner may long for the vse of this Instrumente : it
 serueth meruaylously his tourne.

A. ij.

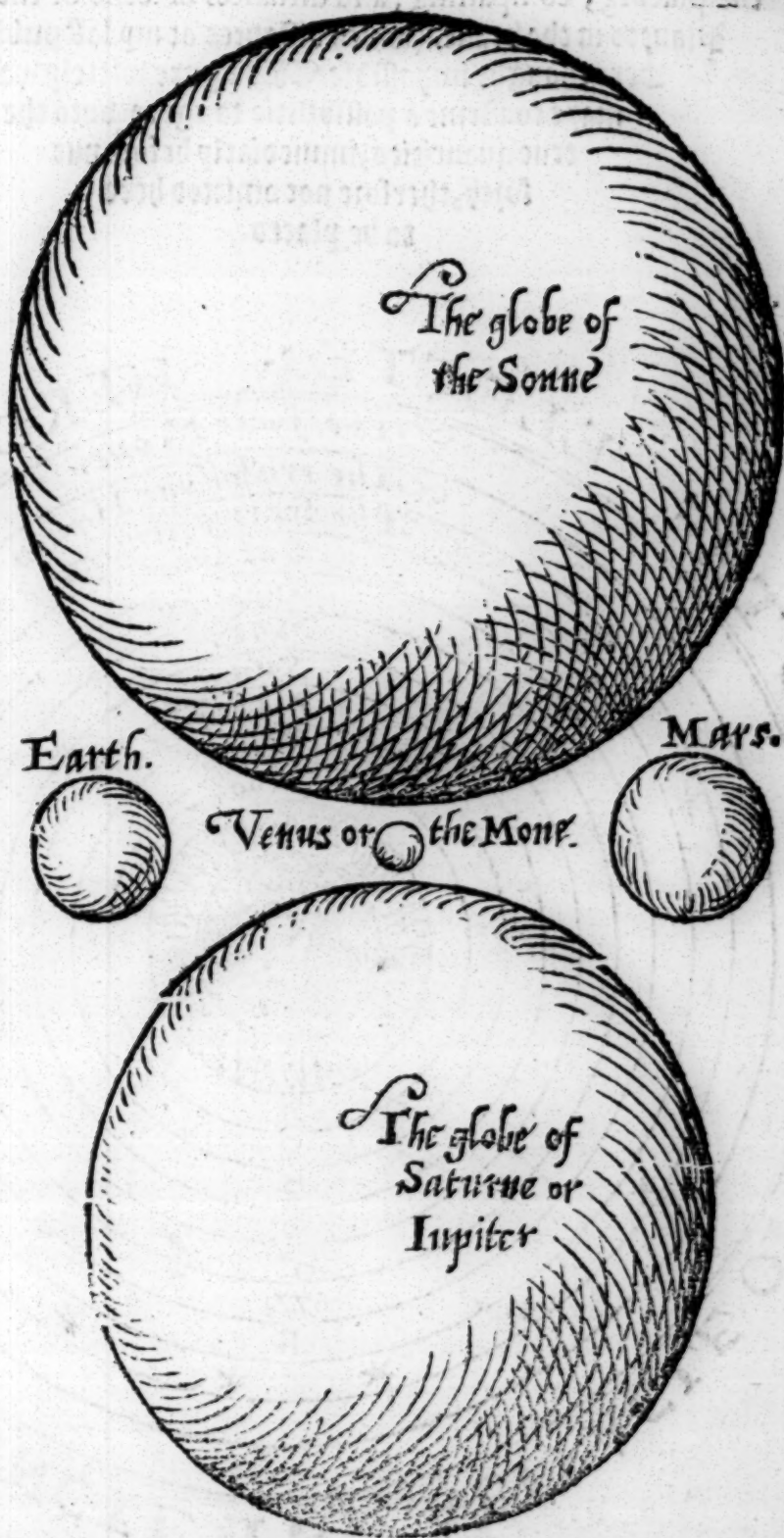
D.

Or thus without the square, this circle will serue well
your purpose, being exactly made, and truely
placed.

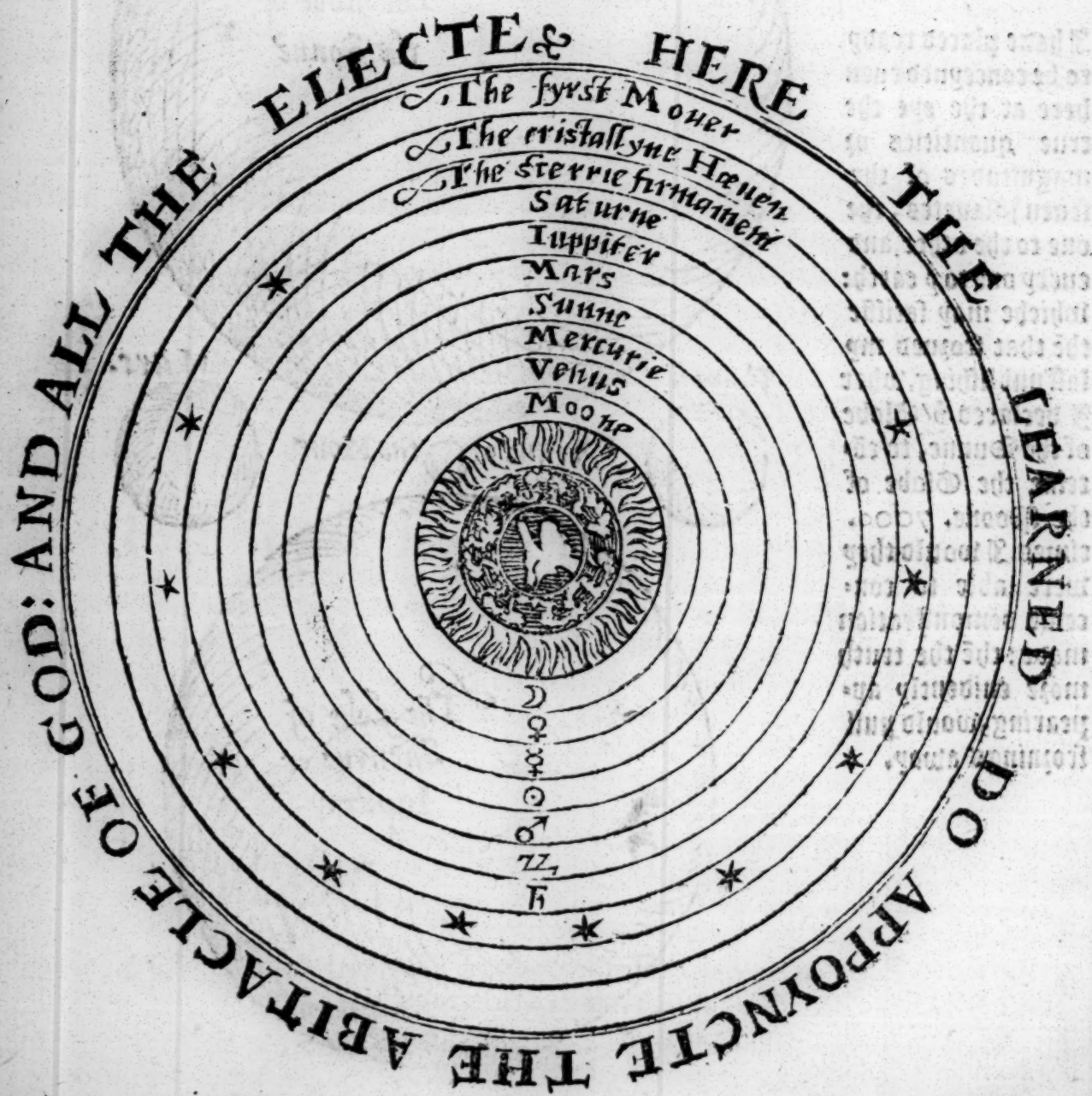


The diameter or breadth of this Circle, must bee a foote or more, so
it is mosse commodious to serue his
use declared.

I haue placed ready
to be conceyued euen
here at the eye the
true quantities or
magnitudes of the
seuen Planetes, the
one to the other, and
euery one to the earth:
whiche may satisfie
thē that scorned my
last publishing, wher
I declared the Globe
of the Sunne, to con-
taine the Globe of
the Moone. 7000.
times. I would they
were able to con-
ceiue demonstration
made: thē the truth
more euidently ap-
pearing, would pull
scornings away.



I thought it mete also to put here this fygure, shewing the placing, compassing, and distances of eche of the forsayde Planets in the heauen (which distances at my last publishing were thought impossible. This figure wittely wayed maye confirme a possibilitie to agree vnto the true quantities, immediatly befoze put forth, therfore not omitted here to be placed.



HOVV TO IVDGE OF Fol. 5

weather by the Sunne rising

or going downe.



If the Sunne in the Horizon or rising, cleare and bright, sheweth a pleasant daye, but thinne overcast with a cloude, betokeneth foule weather. Also at the going downe, the body diuers coloured or redde, and about dispersed with like cloudes the beames red, and of length, pronounce great wyndes, the next daye from that parte. Blackenes in the Sunne or Moone, betokeneth water, redde signifieth wynde.

The Element redde in the euening the next daye sayre, but in the morning redde, wynde and rayne. Also the Sunne beames spotted, greene, pale, or blacke, gathered to a cloude, signifieth rayne. Further the Sunne at the settinge plainly seene without any cloude, declareth a fayre night to ensue.

Here note, Ptolome wilkech vs diligently to obserue the circle or circles about the Sunne. If it be cleare, and that circle of no continuance, beholde faire weather. If many of them, wyndes.

Wyndes moze vehement are signified, if that the circles be somewhat redde, here and there broken: but these obscured thicke and blacke, looke for colde, wynde and snowe.

What is spoken of the Sunne touching the circles, the same is ment of the Moone. Note here that greater wyndes chaunce in the daye then in the night.

Howe weather is declared by the colour of the Moone, and by the nature of the signe wherein she is.

If the Moone in the thirde of her chaunge, yea three dayes before the full, or in the middes of the quarter be founde of pure light nothing compassing her, the ende direct by, she promisseth fayre weather, but bent to red coloure, prouoketh wynde. The Moone pale or somewhat inclined to blacke obscure or thicke, threatneth rayne.

Also by the nature of the signe, weather may be iudged thus, according Steflerinus, Montregius, Leupoldus, and famous Guido Bonatus, with other well trauayled in the mutations of ayre.

Luna rubes
ventat. pal-
lor pluit,
Alba fere-
nat.

A Generall

v n f
hotte.

8 ny v
earthie.

II ≈ ≈
windye.

S m x
watric.

Consider the nature of the signe where the Moone is, at the chaunge, quarter and full. If she be in hote and drye signes as Aries, Leo, Sagittarius, in winter a good token of faire weather. In sommer a greate signification of immoderate heate: If in earthy colde and drye signes, as Taurus, Virgo, and Capricornus, in winter iudge colde, frost, snow to ensue, but in Sommer temperate weather. In Aerie and windye signes as Gemini, Libra and Aquarius, much winde. If in watrye, colde and moiste signes, as Cancer, Scorpio and Pisces, in Winter wet weather, In Sommer a pleasaunt temperature.

Also the Sunne in Aquary, the Moone at the chaunge there or in Sagittary, or at the full in Leo, betokeneth rayne. The Sunne in Pisces or Aries, the Moone in Virgo, Libra, or Sagittarye, signifyeth raine, especialllye in watrye dwellinges. The Moone in Aquarius or Pisces, loke for chaunge of weather, then chiefely she troubleth the ayre. The Moone also at h chaunge or rather at the full, in Aries, Libra, Scorpis, or Pisces, tempestuous weather followeth. The Sunne in Aquarye or Aries, Libra or Scorpis, but chiefely in Leone, the moone then at the full, and that after rayne or missinges, loke for lightening thunder. &c. To conclude the Moone in Cancer, Leo, Capricornus, or Aquarius, ayded with any aspect, but chiefely with the opposition or quadrante of Venus, raine followeth.

The iudgement of weather by Starres.

Cum maio-
ra apparent,
tum enim
Humore
medi⁹ cras-
scit aer.

Behold h starres whose magnitude you know best. If they appeare of much light, in signes great, moze blasing then they are commonlye, it betokeneth greate winde or moysture in h parte where they shewe, in winter colde and frost. When starres seeme to runne in the Elemente, it sheweth winde. Affirme also alteration of weather if they be fewe in number, cloudey, and of little lighte. Further when dimme starres appeare wyth longe fierye tayles, iudge windes and great droughte, the moze in number, the greater effect. When Starres in the night (as it is said) shoote or seeme to fall, it argueth winde in that parte. If in diuers places inordinate windes, if in all places, then pronounce windes, shunder, lighteninges, yea weather most tempestuous.

The

The signification of Comets.

Cometes signifie corruption of the ayre. They are signes of Earthquakes, of warres, chaunging of kingdomes, greate dearth of Cozne, yea a common death of man and beast.

Pontanus sic scribens: Ventorum quoque certa dabunt tibi signa Cometæ: Illi etiam belli motus, feraque arma minantur, Magnorum & clades populorum, & funera regum aquarum significat penuriam.

De cometa-
rum prodi-
gijs, lege
Cardanum
lib 4. fol. 83.
et Antoniũ
Mizaldum
de Cometo-
graphia.

How by the cloudes, chaunge of weather is perceiued.

If thicke cloudes resembling flockes, or rather great heapes of woll be gathered in manye places, they shewe raine. Also when grosse thicke darcke cloudes right ouer þ North part, or somewhat declininge to the West are close with the Earth, immediatly followeth rayne. If they appeare like hylles some deepe from the Earth, a good token of weather ouerpassed. Blacke cloudes, signifie raine. White cloudes appearinge in Winter at the Horizon two or thre dayes together, prognosticate cold and snow.

Of the Raynebow and his effect, touching alteration of ayre.

If in the morninge the Raynebowe appeare, it signifyeth moysture, vnlesse great drought of ayre worke the contrarie. If in the eueninge it shewe it selfe, sayre weather ensueth, so that a boundant moyst ayre take not awaye the effect.

Arcus nisi
sole aduerso
non fiunt.

Orthus.

The Raynebowe appearinge, if it be sayre, it betokeneth foule weather, if foule, loke for sayre weather. The greener the moze rayne, redder winde.

Non appa-
ret nisi cum
Vapores ra-
rificantur,
vel inspissā-
tur.

A Generall

Of Thunders what they signifie.

Signum fu-
turoꝝ bel-
lorum.

Thunders in the morning, signifie wynde. About noone raine.
In the evening great tempest. Some wyte (their grounde
I see not) that Sondayes thunder, should bringe the death of
learned men, Judges and others.

Mondayes thunder the death of women.

Tuesdayes thunder plenty of grayne.

Wednesdayes thunder, the death of harlots & other bloudshed.

Thursdayes thunder, plenty of sheepe and corne.

Frydayes thunder, the slaughter of a great man, and other hor-
rible murders.

Saturdayes thunder, a generall pestilente plague and great
dearth.

Howe weather is knowen after the

chaunge of euery Moone by the
Prime daye.

Sundaye Prime, drye weather, Monday prime moyst weather.
Tuesdaye prime, colde and wyndie. Wednesdaye prime, won-
derfull. Thursdaye prime, faire and cleare. Fryday prime, mixt
weather. Saturdaye prime, moyst weather.

Nowe ensueth extraordinarie to- kens for the knowledge of weather.

Commune
tokens of
weather,
mete for all
maner witts

Some haue obserued euil weather to followe, whan as watry
foules leaue the Sea, desiring land: the foules of y^e land flying
high: the crying of foules about waters making a great noyse
with their wyngs: Also y^e Seas swelling with vncustomed waues:
if beastes eate greedely: if they lycke their hooues: if they sodainly
moue here and there, making a noyse, breathing vp to the aire with
open nostrilles: rayne followeth. Also the busly heauing of Moles,
the appearing or comming out of wormes. Pennes resorting to the
pearche or restie couered with dust, declare rayne. The ample wor-
king of the Spinner in the ayre: the Ant busyed with her egges:
the Bees in fayre weather not farre wandring, the continuall pra-
ting

ting of the Crowe, chiefly twyse or thysse quike calling, sheweth
yeste. When the Crowe or Raven gapeth against the Sunne in
Sommer, heate foloweth. If they busie them selues in poyning or
washing, & that in wynter, looke for rayne. The vncustomed noyse
of poultery, the noyse of swyne, of Peacocks, declare the same.
The Swallows flying and beating the water, the chirping of the
Sparowe in the morning, signifie rayne. Rayne sodenly dried vp,
Woody coverings Raiser the of custome. Belles heard further the
commonly, the wallowing of dogges, the alteration of corke crow-
ing, all declare raynye weather. I leaue these wanting the good
ground of the rest. If the learned be desirefull of the twoo foresaide,
let them reade graue Virgil, Primo Georgicorum. At bor &c.

There be a multitude of oither not extraordinary, but of the best
known causes, many for breuitie here omitted, the moste parte not
mentioned, bicause they passe the capacitie of the common sortebp-
on all the which the Astronomer, doth wel and learnedly conclude
I doubt not, there bee also somethine vknownen matters mittiga-
ting the aforesayde, or prouoking tempest vnlooked for, which nei-
ther experience, ne learning hath stablished. Howe vnkynde (these
considered) yea howe farre from woorthy thankes geuing are they
whiche in generall headdely do blame checking bitterly the Astro-
loger, with these Iudiciarie matters, the least part among a num-
ber of his moste certaine doings whan thinges fortune contrary to
expectation. Vnderstand gentle Reader, the consent of a multitude
fainously learned is their Buckeler, even in these matters iudicia-
rie. Who haue wayde a long tyme prudently, the great strengthe,
the belement force, and marueylous natures, of all erraticall and
celestiall constellations, with their Angels, Radiations, Aspectes,
Affections, Stations, Progressions, Defections, Dispositions,
Applications, Preuentions, Refrenations, Contrarieties, Ab-
scissions, Coniunctions, Quadzatures, and Oppositions. &c. Ther-
fore extreame folly, yea more then madness doth be better, whythe
imbraydeth or backebiteth these knowledges, not remembryng the
greate, and manifolde benefites had through theim, and that with
moste certaintie in all other doings.

What Meteoscoper, yea who learned in matters Astronomi-
cal, noteth not the great effects at the rising of the starre called the
little dog. Truly the consent of the best learned do agree of his force,
yea Plini, in his historie of nature affirmeth, the Seas then moste
fierce, Wines to flowe in cellers, standing waters to moue dogs
inclined

Canis minoris
efficacia.

A generall

Oriōis, Ar-
cturi, Coro-
nae, Capre,
succularum
effectus.

♂ ☐, & ♀,
H cum ☉
aut ♃.

♂ ☐ &
♀ cum ♃
aut cum ☉,
&c.

inclined to madnes, then most woode. Farther these constellations Orion Acturus, Corona, rylinge prouoke tempestuous weather. The kyd and Goate, windes, Wyades, or Succule rayne. What Meteorologer consenteth not to the great alteration and mutacion of ayre, at the coniunction, oppositiō or quadrate aspect of Saturn with either two lightes. Who is ignorant yea meanely traueyled in Astronomie, that Jupiter with Mercurye or with the Sunne, inforceth rage of winds. What is he that perceiuech not the fearefull thunders, lighteninges and raynes, at the meeting of Mars & Venus or Jupiter & Mars. &c. Leauē for shame to impugne these iudicials strongly authorised. He that any other part carpeth may seeme moze then mad. All truth, all experience, a multitude of infallible grounded rules are against him. Certum est omnibus que notum, quod coeli motus, signorum ortus, & occasus, planetarum aspectus, & coniunctiones, luminarium eclipses, &c. certissimam, determinatam, ac infallibilem habent causam. Quis iam sane mentis negabit eorum effectus sepe innotescere, vtpote bella, fames, grandines, aeris perturbationes, elementorum commotiones, terre motus, & similia? Positis crucis naturalibus, & non impeditis, sequitur effectus.

The learned that listeth ingeniously to prognosticate of weather will not onely discretelye waye all before written, but consider also with them the aspectes of h planets folowinge, & their Combustion in the twelue signes, with the coniunctions of fixed starres, mansions of the Moone, Ascēdent Climes. &c. Also the times or quarters of the yeare must be noted diligentlye (as ensneth) and iudgemente accordingly pronounced.

Of the yeare deuided into iiij. quarters.

♂ ☿ II
Power of h
breft.

♂ ☿ III.

♂ ♃ ♀
Power ouer
all flumes.

The Springe time is hot and moyste, and continueth so longe as the Sunne is in Aries, Taurus, Gemini, which is from the tenth of March vnto the twelfth of June. The Sommer is hot and drye compted from the beginning of Cancer to the ende of Virgo, that is from h twelfth of June to the 14. of September. Haruest is cold and drye: that is from the beginning of Libra vnto the ende of Sagitarpe, counted from the xiiii. day of September to the xiii. of December. Winter is cold and moyste, counted from the beginning of Capricornus, to the end of Pisces, that is from h twelfth of December, to the tenth of March.

Hers

Here follow the aspectes of the Planets
for the better iudgement of
vveather.

BEfoze I declare of Planets & the significatiō of aspectes, it behoueth briezely to open what I call Planets, and what aspectes, and how they are Characted and figured. Understand there be seuen moneable Starres pleasaunt to the sight called Planets, þ highest Saturn ♄ , then Iupiter ♃ , Mars ♂ , Sunne ☉ , Venus ♀ , Mercury ☿ , & the Moone ☾ , nexte to the earth.

Now when I desire to expresse Saturne, I write this figure ♄ for Iupiter this ♃ , or Mars thus ♂ , Thus of the other as they Characters declare. All Radiations or aspectes are expressed as followe: A Coniunction thus figured ♄♃ , and it is when an other Planet is toynd with þ Sunne or Moone, or others among themselves, within one degree or lesse.

The Sextile Aspecte or Radiations, is thus expressed ♄♃ , and it is with 60. degrees the one from the other. The Quadrate aspect thus ♄♃ , 90. degrees distant. The Trine thus ♄♃ , seperated 120. degrees. The Opposition thus ♄♃ , 180. degrees the one distant from the other.

Loe here they followe in order, the characters of the Planetes, and Signes also.

♄ ♃ ♂ ☉ ♀ ☿ ☾
Coniunction, Sextile, Quadrate, Trine, Opposition.

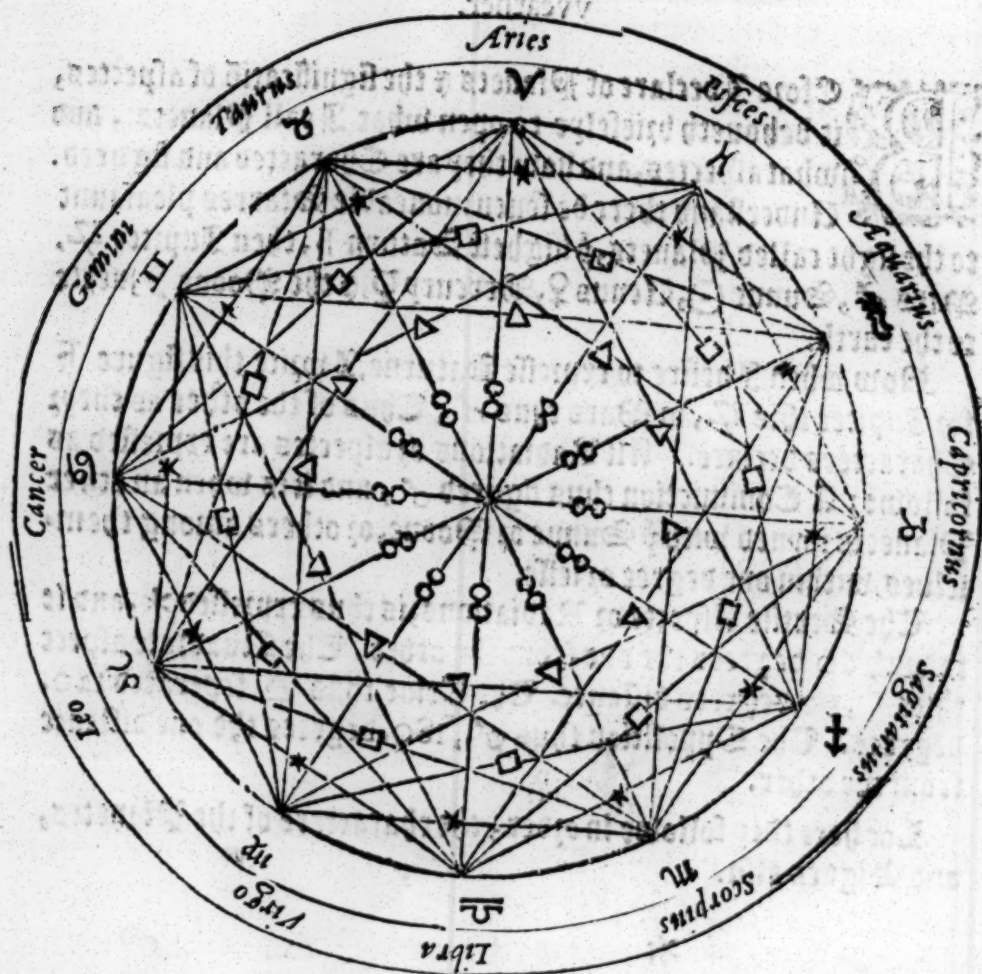
♄ ♃ ♂ ☉ ♀ ☿ ☾
Saturne, Iupiter, Mars, Sunne, Venus, Mercury, Moone.

♈ ♉ ♊ ♋ ♌ ♍
Aries, Taurus, Gemini, Cancer, Leo, Virgo.

♎ ♏ ♐ ♑ ♒ ♓
Libra, Scorpius, Sagitarius, Capricor. Aquarius, Pisces.
Pet

A generall

Net for more playnes behold this fygure.



The signification of aspectes of
Planets among them selues: for the iudge-
ment of weather.

h cū ♄ **T**he confuſion or meeting of Saturne with Iupiter, in ſierp
Signes, enforceth great drought. In watry ſignes, flouds,
continuell rayne, general ouerflowinges, &c. In ayye ſignes,
plenty of wyndes.

h □ * & **T**he quadrature, ſextile, or oppoſition of Saturne with Iupiter,
in moiſte ſignes cauſeth troubled ayye, by hayle, wynde, rayne,
thunder, &c. befoze and after.

The

The coniunction, Quadrature or opposition of Saturne with Mars, in watry signes, declare in Sommer rayne, ofte showers, with hayle, thunder and lighteninge. $\text{h} \delta \square \& \infty$
cum δ .

The coniunction Quadrature or opposition of Saturne with the Sunne, chiefly in colde signes, shewe darke weather, hayle, rayne, thunder, and colde dayes. $\text{h} \delta \square \& \infty$
cum \odot .

The coniunction Quadrature or opposition of Saturne with Venus in wynter, engender colde and rayne, principally in moyste signes: Sommer, mitigation of heate. $\text{h} \delta \square \& \infty$
cum ♀ .

The coniunction, Quadrature or opposition of Saturne with Mercurie, in watry signes, bying rayne, in hotte or drye signes, drought in Sommer, thunder, lightnings and tempest. $\text{h} \delta \square \& \infty$
cum ♀ .

The coniunction Quadrature or opposition of Jupiter with Mars, in moist signes declare thunders, lightnings, and rayne: in wynter snowe, or cloudy thicke weather. $\text{♃} \delta \square \& \infty$
cum δ .

The coniunction Quadrature, or opposition of Jupiter with the Sunne, great and mooste vehement wyndes. $\text{♃} \delta \square \& \infty$
cum \odot .

The coniunction Quadrature, or opposition of Jupiter with Venus in moyste signes, colde and mistinges, in the reste signes, fayre weather. $\text{♃} \delta \square \& \infty$
cum ♀ .

The coniunction Quadrature, or opposition of Jupiter with Mercurie, great wyndes. $\text{♃} \delta \square \& \infty$
cum ♀ .

The coniunction Quadrature, or opposition of Mars with the Sunne in fyrie signes, drought, in watry, thunder and rayne. $\text{♂} \delta \square \& \infty$
cum \odot .

The coniunction Quadrature, or opposition of Mars with Venus in moiste signes, rayne and tempest. $\text{♂} \delta \square \& \infty$
cum ♀ .

The coniunction Quadrature, or opposition of Mars with Mercurie in hotte signes, great heate: in drye signes drought, in watry rayne, sometimes thunders, lightnings, with sodain fierce wyndes. $\text{♂} \delta \square \& \infty$
cum ♀ .

A generall

♀♂□&∞
cum ♀.

The coniunction Quadzature, or opposition of Venus with Mercurie, causeth rayne, in Sommer they prouoke tempest, the more if they agree in watry signes. Note what is sayde of the coniunction quadzature or opposition, the same is also ment of ♀ Sextile and Trine, but they are of lesse signification, so the learned noteth.

A declaration of weather by aspects of the Moone with Planets.

♂♂□, & ∞
cum ♀

The coniunction Quadzature, or Opposition of the Moone with Saturne in moyst signes, bringeth a cloudy daye, cold ayre according to the nature of the signe: If she go from Saturne to the Sunne, by coniunction or other wyle, harder weather ensueth.

♂♂□, & ∞
cum ♀.

The coniunction Quadzature or opposition of the Moone with Iupiter in Aries or Scorpio, shewe fayre weather, white dispersed cloudes.

♂♂□, & ∞
cum ♂.

The coniunction Quadzature, or opposition of the Moone with Mars in watry signes, rayne: in hote signes, diuers coloured cloudes are made, all the Element ouer. In Sommer often thunder.

♂♂□, & ∞
cum ☉

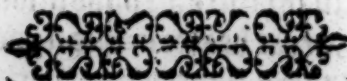
The coniunction Quadzature, or opposition of the Moone with the Sunne in moyst signes, rainy weather. The more if the Moone go from the Sunne to Saturne.

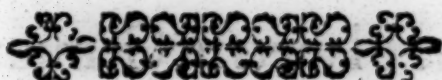
♂♂□, & ∞
cum ♀

The coniunction Quadzature, or opposition of the Moone with Venus, chiefly in moyst signes, rayne foloweth. The Moone going from Venus to Mars, more varietie of weather.

♂♂□, & ∞
cum ♀.

The coniunction Quadzature or opposition of the Moone with Mercurie in moyst signes, sheweth rayne and wynde, the more whē the Moone passeth from Mercurie to Iupiter: then great wyndes folowe.





**Howe the weather is iudged by the
Oriental and Occidental station of Planets, with
their Combustion in the twelue signes celestiaall.
First of the Planets in Aries.**



SATVRNE in Aries combust (that is to saye vnder the beames of the Sunne) maketh a cloude darke troubled ayre: Oriental, I meane in the morninge appearing before the Sunne, saye weather: Occidental, that is to saye shewing himselfe after the Sunne going downe, betokeneth great windes.

h in v

VVhat these termes Combust Oriental and Occidental meane.

Jupiter in Aries combust, a token of raine: beinge Occidental, it bringeth cloudes, and dewes: Oriental, saye pleasant weather.

v in v

Mars in Aries combust and occidental, good weather: contrarie Oriental.

g in v

Venus in Aries combust Occidental, moistnes, great windes: Oriental, thunders and raynes.

q in v

Mercurie in Aries combust, tempest: Occidental and Oriental, saye windy weather.

z in v

Of the Planets in Taurus.

SATVRNE in Taurus combust, and stationarie, bringeth thicke cloudes, thunders and troublesome weather.

h in x

Jupiter in Taurus combust, indifferent weather: Occidental, pleasant houres.

v in x

Mars in Taurus combust, a quiet ayre: but Oriental, windy.

g in x

Venus in Taurus combust, thunders, &c. Occidental, saye.

q in x

Of the Planets in Gemini.

♄ in ♊ SATVRNE in Gemini combust and Occidentall, drought.

♃ in ♊ Iupiter in Gemini combust, a good signification.

♂ in ♊ Mars in Gemini combust and Occidentall, heate.

♀ in ♊ Venus in Gemini combust Occidental, wynde.

☿ in ♊ Mercurie in Gemini combust, winde.

Of the Planets in Cancer.

♄ in ♋ SATVRNE in Cancer combust, darke weather, great windes and troublesome weathers; Occidentall, calmer.

♃ in ♋ Iupiter in Cancer combust, bringeth calme pleasant weather.

♂ in ♋ Mars in Cancer combust, great heat.

♀ in ♋ Venus in Cancer combust, a quiet calme time.

☿ in ♋ Mercurie in Cancer combust, tempestuous weather, chiefly on the Sea; Occidental, calmer.

Of the Planets in Leone.

♄ in ♌ SATVRNE in Leone combust, maketh windes and mpt-
alliges.

♃ in ♌ Iupiter in Leone combust, pleasaunt windes.

♂ in ♌ Mars in Leone combust, Occidentall, drought.

♀ in ♌ Venus in Leone combust, drought.

☿ in ♌ Mercurie in Leone combust, windes.

Of the Planets in Virgo.

SATVRNE in Virgine combust, is a significatour of infirmityes. h in m

Jupiter in Virgine combust, manifesteth aboundance of thinges. u in m

Mars in Virgine combust, like vnto Saturne. d in m

Venus in Virgine combust, broughthe, orientall contrary. q in m

Mercurie in Virgine combust, broughth, raginge seas, occidental drought. p in m

Of the Planets in Libra.

SATVRNE in Libra combust, sheweth infirmitie of sighte, orientall colde windes. h in l

Jupiter in Libra combust, indifferent weather. u in l

Mars in Libra combust, bringeth moysture. d in l

Venus in Libra combust, moyst aye. q in l

Mercurie in Libra combust, windes. p in l

Of the Planets in Scorpio.

SATVRNE in Scorpio combust, cold aye: Occidental, frost, Orientall, cold, North windes. h in m

Jupiter in Scorpio combust, raine: Occidental, bitter weather. u in m

Mars in Scorpio combust, declareth moysture: Oriental, windes. d in m

Venus in Scorpio combust, raine, both Occidental and Oriental. q in m

Mercurie in Scorpio, combust, raginge weather, chieselye Oriental. p in m

Of the

A generall

Of the Planets in Sagittarius.

- ♄ in ♐ SATVRNE in Sagittarius combust, colde rainye aye: Oriental, cold and frost.
- ♃ in ♐ Iupiter in Sagittarius combust, much rayne: Oriental worst weather.
- ♂ in ♐ Mars in Sagittarius combust drought.
- ♀ in ♐ Venus in Sagittarius combust, rain: Occidental winde & colde.
- ☿ in ♐ Mercurie in Sagittarius combust, rain, Occidental cleare aye.

Of the Planets in Capricornus.

- ♄ in ♑ SATVRNE in Capricornus combust, signifeth darcke weather with South wyndes: Occidental, colde: Oriental, North wyndes.
- ♃ in ♑ Iupiter in Capricornus combust, moyst aye: Occidental, increasing the same.
- ♂ in ♑ Mars in Capricornus combust, cloudy: Occidental, some heate.
- ♀ in ♑ Venus in Capricornus combust, cold aye: Oriental, rain.
- ☿ in ♑ Mercurie in Capricornus combust, rain, both Oriental and Occidental.

Of the Planets in Aquarius.

- ♄ in ♒ SATVRNE in Aquarius combust, cold aye: Occidental, dangerous seas: Oriental, rain.
- ♃ in ♒ Iupiter in Aquarius combust Occidental, rayne.
- ♂ in ♒ Mars in Aquarius combust, drought: Occidental & Oriental plenty of wyndes.
- ♀ in ♒ Venus in Aquarius combust, cloudy: Occidental hot: Oriental, rain.
- ☿ in ♒ Mercurie in Aquarius combust, snow: Occidental, more cold, Oriental Of the

Prognostication for euer.

Fol. 12

Of the Planets in Pisces.

SATVRNE in Pisces combust, bringeth cloudes: Deciden-
stall rayne. ♄ in ✕

Jupiter in Pisces combust, Orientall, calme waters. ♃ in ✕

Mars in Pisces combust, Occidentall, drought: Oriental, light-
ning and thunders. ♂ in ✕

Venus in Pisces combust, Occidentall, disposed to snowe. ♀ in ✕

Mercurie in Pisces combust, moyst aye. ☿ in ✕

Thus muche of the iudgement of weather.

Being that I haue nowe sufficiently declared howe, by what rules and to-
kens weather is iudged, I thinke it conuenient to adioyne here a bryefe collec-
tion, howe Plenty, Scarcitie, Sicknesse, Death, Alterations, Troubles,
Warres, &c. are for euer perceiued.

A rule to prognosticate the foresaid by the falling of Newyeares day.

Sondaye.

It is affirmed of some, when Newyeares day fal-
leth on the Sunday, then a pleasant wynter do-
eth ensue a naturall Sommer, fruite sufficient.
Haruest indifferent, yet some winde & rayne, ma-
ny mariages: plenty of wyne and hony, death of
yong men and cattell, robberies in moste places,
newes of Prelates, of Kinges, and cruell warres in the ende.

Mondaye.

On monday, a winter somewhat vncomfortable, Sommer te-
perate, no plenty of fruite, many fantasies and fables opened:
agues shall raigne: kinges and many others shall dye: ma-
riages shalbe in moste places: and a common fall of Gentlemen.

Tuesdaye.

On Tuesday, a stormy wynter, a wet Sommer, a diuers har-
uest, corne and fruite indifferent, yet herbes in gardeins
shall not flourish, great sicknes of men, women and younge
chil dren.

A generall

children. Beastes shall hunger sterue, and die of the botche : many shippes, galleis and hulkes, shalbe losse : and the bloudy flires shall kyll many men : all thinges dere saue Corne.

Wednesdaye.

On Wednesdaye, loe a warme wynter. In the ende snowe and froste, cloudy Sommer, plenty of fruite, of Corne, Hay, Wine, and hony : great payne to women with childe, and death to infantes, good for shepe, newes of kinges, great warres, battell, and slaughter towarde the middes.

Thursdaye.

On Thursday, wynter and sommer wyndy. A rayny haruest : therfore we shall haue ouerflowynges. Suche fruite, plenty of hony. Yet fleshe shalbe deare, cattell in generall shall dye, great trouble, warres, &c. With a licentious life of y^e feminine sexe.

Fridaye.

On Friday, wynter stormie, Sommer scant pleasaunt, Haruest insufficient, little store of fruite, of wine and hony, corne deare. Many blinde eyes : yough shall die. Earthquakes are perceived in many places, plenty of thunders, lightnings, and tempests, with a sadde death of cattell.

Saturdaye.

On Saturdaye, a meane wynter : sommer very hotte. A late Haruest, good cheape garden hearbes, much burning, plenty of hempe, flaxe, and hony. Olde folke shall die in molle places. Feuers and tercians, shall greue many people, great muttering of warres, murders shalbe fouely committed in many places, for light matters.

Nowe that I haue opened diuers wayes, both for the learned & vnlearned, howe weather to come at all tymes, may be well iudged and knowen. &c. I thought it meete for farther knowledge therein, not to omitte here the naturall causes of such and so many alterations of ayre. Loe, therefore orderlye they folow.

Naturall

Naturall causes conducting to
all the aforesayde, and first
of the Raynebowe.

The Raynebowe is the shining and reboundyng of Beames
of lyghte, that tourne to the contrary vapoure againe in the
Cloude. It declareth sometymes Rayne, and many tymes
fayre weather: when the one and howe the other, is befoze opened.

Of Rayne.

Rayne is a colde vapour, an earthy humour, or fumositie,
out of waters or earth, drawe by by the vertue of the Sunne,
to the neather parte of the middle space of the ayre, there
through colde thicked, then dissolued: thus engendred falleth on
the earth.

Here I leaue to speake of miraculous raynes, as Milke, bloud,
fleshe, Iron, wolle. &c. For moze satisfying of these reade Plinie, in
the seconde booke. 58. chapter.

Quare lapi-
des pluant,
lege Pli. li. 2
cap. 58.

Of Frost and Dewe.

A Colde moyste vapour, a little waye drawen by in the daye, Ros estate,
through fainte heate of the Sunne, descendeth in the night pruina hie-
dissolued on the earth, there congelated or resolued into wa- me fit.
ter, the one called frost, and the other dewe. The last is a signe of
fayre weather in the spring or harvest.

Of Snowe.

It is a moyste vapour, drawen by to the middle region of the ayre, Nix humor
then thicked, and frozen in the bodye of a cloude: so congelated modice con-
descendeth. cretus.

Of Hayle.

A Cloude resolued into water, in the fall congelated, maketh
Hayle. The hyer it commeth from aboue, and the longer it
tarieth in the ayre, the rounder hayle.

Grando plu-
uia in discē-
su, cōgelata.

A Generall

of wyndes.

Ventorum
ergo mate-
ria, calida &
sicca exhala-
tio.

V Wyndes is a multitude of drie exhalations, drawn by from the earth, and aboute the earth, enforced here and there.

Of earthquakes in the moſte quiet tyme.

Quemadmo-
dum in nu-
be tonitruū,
ſic in terra
tremor.

P Lenty of wyndes, entred into hoales, cones, or caues, of the earth, which absent from aboute the earth, cauſeth quietnes: the violent byrſting out of them (the earth cloſed againe) is the earthquake, Signum eſt futurorum bellorum.

Tokens of earthquakes to come.

Signa terre
motus.

A Fyze cloude appearing in the Element like a little Piller, is a token of earthquakes to come. The obſcuritie or darke-
neſſe of the Sunne, without cloudes and ſtraightly coloured
blondye or other wyſe, is a token of Earthquakes.

Alſo when well water and others are troubled, or ſalt, or infec-
ted by ſanoure. &c.

A great quietnes of ayre by lande and Sea, and chiefly the long
abſence of wyndes.

Alſo ſtrange noyſes heard, as clamours of men, ruſhing of har-
neſſe, mourninges, lamentations &c. All theſe haue bene obſerued
to ſignifie Earthquakes at hande.

Of Thunders and Lightnings.

Fulgetrum
prius cerni
quā tonitruū
audiri, cum
ſimul ſiant
certum eſt,
Plin. lib. 2.
Cap. 56. con-
tra Ariſt.

T Thunder is the quenching of fyze in a cloude. Or thunder is
an exhalation, hote and drie, mixt with moyſture, carped by
to the middle Region, there thicked & wrapped into a cloude
of this hote matter coupled with moyſtnes, cloſed in ſ cloud, grow-
eth a ſtrife, the heate beating, & breaking out the ſides of the cloude
with a thundring noyſe: the fyze then diſperſed, is the lightning.
Thus ſay the learned: Tonitruum ſonitus eſt, qui editur quando
nubem rumpit halitus. Fulmen flamma vel repentinus eſt ignis
qui ex collisione nubium, aut ruptura naſcitur. Ariſtole affirmeth
the lightening after the thunder, but the ſire doth firſt appeare, in
that the ſight is before the hearing. If this ſatiſſie not, reade the
ſecond of his Meteozon. Here ſoloweth a note of lighteninges.

There

There be three kindes of Lightenings drye, moyst and cleare.

Drye do not burne but cleare, depart or deuide. Moyst burne not but alter coloure. The cleare are of maruelous natures, ful barreles by it are emptied, it melteth money in the purse, it breaketh the sword, the purse & scabbard not perished, yea waie in them vnmolten. Note.

Of the Comets or flames in the night.

A Comete is a flame working in a drye, hot, stinpe exhalatiō, drawne vp to the highest part of the ayre. His matter or substance after it is bzent, dispersed, prouoketh windes. Ventorum causa.

The naturall cause of the Sunne in Eclipse.

Nothing els is the Eclipse of the Sunne, but the direct putting the body of the Moone betweene y Sunne & the earth, or betweene our sight and the Sunne, which chaunceth onely at the chaunge.

A Corollarye,

By this gather the darknes at Christs death, not to stande by Naturall Ecliptical cause, but by supernaturall, or myracle. For it was at the ful Moone the Scriptures witnesse, which enforced Dionisius Ariopagita at the time of his passion, to speake thus: Aut Deus nature patitur, aut mundi machina dissoluitur. Miracle.

The cause of the Moone Eclipsed.

The Sunne being in the contrarie point to the ful Moone enforeth the shadowe of the earth, then directlye put betweene the Sunne and the Moone, toward the Moone, byding more or lesse of the Moone, as he differeth from the Eclipticall. Some obserue pestilente plagues, sodaine battell, great dearth, to ensue these Eclipses; which all I desire God to auerte from his chosen. Many other thinges by this Eclipse are gathered, as Longitudes of countreyes, the Quantitie of the Sunne contayninge the bignes of the earth, a hundredth threescore and two tymes. Vniuersalis est Eclipsis Lunę. Non semper in noui lunio, sed in capite & cauda.

A Generall

Omniū pla-
netarum ad
terrā mag-
nitude.

compasse of the earth 21600. myles, whose thicknes accordinge to Archimedes rule is 6872. myles, and eight eleuenthes of a myle. The quantitie of the Moone is the 43. part of the earth. The Sunne contayneth the Globe of the Moone 7000. times. Saturnus comprehendeth the bignes of the earth 91. times: Iupl-ter 95. times: Mars, once and ten sixtenthes. Venus the 37. parte. Mercurius, one 32000. part of the earth.

Note here that Alfraganus affirmeth the least fixed starre per-
fectlye seene, as big as the whole earth.

Dimetiens
○ ad terrę
dimetientē
11. ad 2.

Cubus ○
1331. terrę 8.

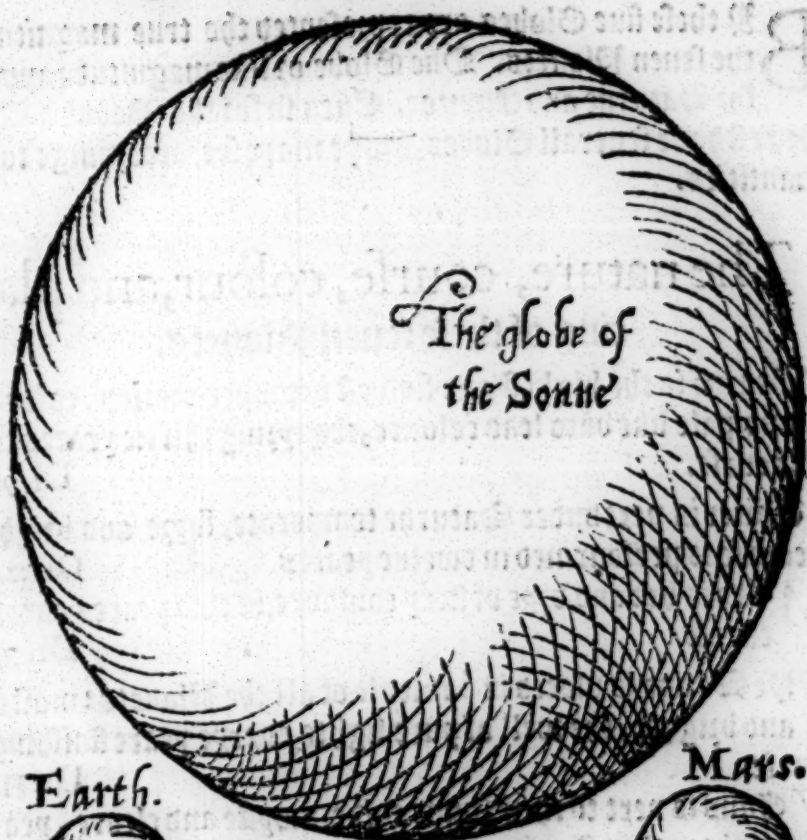


AEc non erunt admirationi, si globi capacitatem ex lō-
gitudine diametri quā fieris. Continet enim solis dime-
tiens terrę dimetientem quinquies & semissem. Estque
proportio diametri solis ad terrę dimetientem, quę est
numeri vndecim ad duo, quintupla sesquialtera. Cubus solis mil-
le tercentum vnam, & triginta partes tales cōtinet, cuiusmodi ter-
rę cubus octonas complectitur. Cubus enim numeri vndecim, est
mille tercentum vnum & triginta. Cubus vero binarij, qui est ter-
rę, octo Subducto quoties id fieri potest, minore cubo, qui est terrę,
a maiore qui est solis, cognoscitur cubi ad cubū proportio, & quā-
to Sol maior, terra sit. Inuenimus ergo octo senties, sexageis sexcis,
in mille tercentum vno & triginta.

Dimetiens
terrę ad diā
17. ad 5.
Cubus terrę
4913. cubus
125.

TErrę diametros Lunę dimetientem complectitur ter, & duas
eius diametri portiones quintas: estque ea porportio dime-
tientis terrę ad Lunę diametrum, quę est septemdecim ad
quinque tripla superbipartiens quintas. Cubus numeri septem-
decim est quater mille nongenta tredecim. Cubus numeri quinq;
est centum viginti quinque. Maiore cubo per minorem distribu-
to, reperim⁹ numerum centum viginti quinque, tricies nouies in
quater mille nongentis tredecim; quod paululum a superioribus
obseruationibus differt.

✂ The quantities or rather true propor-
tion of all the Planets vnto the Earth, ocu-
lerlye demonstrated by figure
followinge.



Earth.



Venus or the Moone.



Mars.



Mercurie is but a pointe in respecte of these quantities,

A generall

By these five Globes are represented the true magnitudes of the seven Planets. One Globe of like magnitude appointed for Saturne and Iupiter. Euen so for the Moone & Venus, the rest haue seuerall Globes, (as ye maye see) accordinge to theyr quantities.

The nature, course, colour, and placing of these seven Planets.

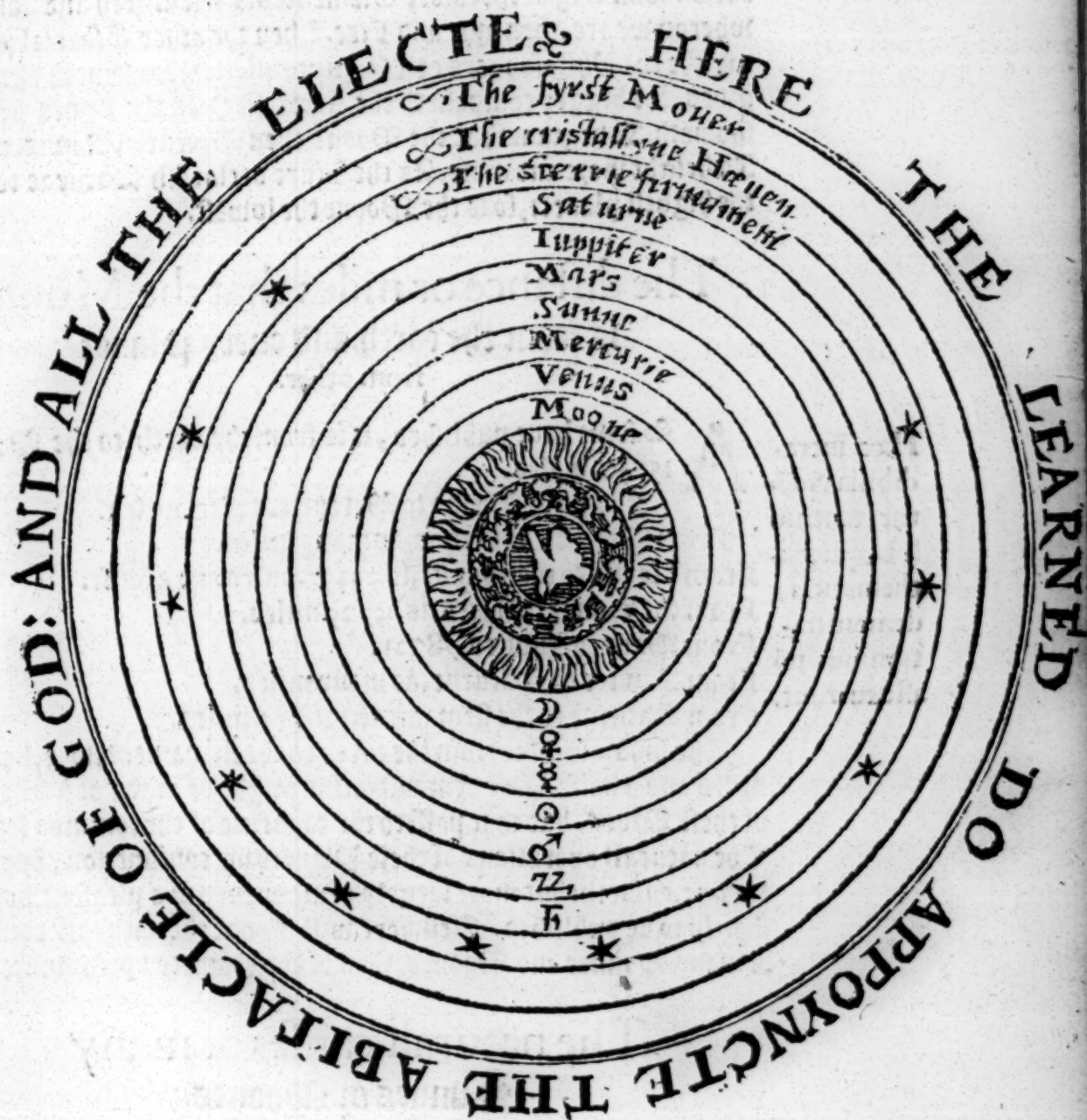
- ♄ **S**aturne is the highest and slowest in proper motion, colde, dype and pale like vnto lead coloure, requyryng thirtie yeares to end his course. Di. 9. ad 2.
- ♃ **I**upiter is next vnder Saturne temperate, fayre and bright, his course is perfourmed in twelue yeares. Di. 32. ad 7.
- ♂ **M**ars is hot and dype of fiery couloure, in two yeares endeth his course. Di. 7. ad 6.
- ☉ **T**he Sunne is placed in the middle of all the Planets: most cleare and brighte, the well of pure lighte, euerye yeare finishinge his course. Di. 11. ad 2.
- ♀ **V**enus is next to the Sunne colde, moyste and cleare, yea more brighte then Iupiter: her course is like vnto the Sunnes: neuer aboue eighte and fourtye degrees from the Sunne: called the Morning starre when she goeth before the Sunne, comming after the Sunne she is named the Euen starre. Di. 3. ad 10.
- ☿ **M**ercurie is next vnder Venus, somewhat shyning but not very bright. Neuer aboue nine and twenty degrees from the Sunne, his course is like vnto Venus or the Sunnes motion.
- ☾ **T**he Moone is lowest of all the seven, runninge ouer the whole Zodiacke in seven and twenty dayes, eight houres and somewhat more. Di. 5. ad 7.

For more playnes of that which is opened, nowe shall followe a figure by the which ye maye perceiue how the Orbe of the one Planet compasseth the other.

Also howe these Planets are placed in the Heauen, yea which Planet is highest from the earth, and which nearest vnto vs.

Consider well this figure, so needeth no farther declaration.

Continuatio ad tractatum de signis et de domibus



A generall

We may here beholde first the Elemental part subiect vnto alteration consisting of the lower Elementes. First Earth and Water wheron we are, then ayre and Fire. Then the other Ethernall parte whiche the Philosophers call (Quinte essence) containeth the ten orbes, the bigger compasseth the next lesser, as the figure befoze sheweth. It beginneth at the Moone, then Mercurie, Venus, &c. In height more and more. As the figure declareth Saturne to bee the highest planete, so is the Moone the lowest.

The distance or miles that the Moone is from the earth, and euery Planet from other.

Hæc incre-
dibilia vidē-
tur tantum
hij, qui ma-
thematicis
demonstra-
tionibus nō
assueuerunt.

A Some haue published, it is from the earth to the Moone
15750. miles.

From the Moone to Mercurie. 12812. miles.

From Mercurie to Venus, as many miles.

From Venus to the Sunne, is. 23437. miles and a halfe.

From the Sunne to Mars, is. 15725. miles.

From Mars to Iupiter. 78721.

From Iupiter to Saturne, as many miles.

From Saturne to the firmament. 120485. miles.

The whole summe from the earth to the firmament, is. 358463. miles and a halfe. Here demonstration might be made of the distance of these Orbes, but that passeth the capacite of the common sort. The naturall operations of these Planets by coniunction, opposition, &c. ensueth: but more largely of me opened in a pleasant booke shortly to be published. First here will I ende the naturall causes of many Sunnes and Moones, then of the Planets by coniunctio.

The naturall causes of many Sunnes or Moones.

Milichius
noteth the
king of Pole
to haue sene
6. Sunnes at
once,

These come to passe, when a thicker Cloude is gathered towarde the syde of the Sunne or Moone, in the whiche the broaken beames of the Sunne do leaue, the fashion and very forme of that Sunne. Thus as foloweth, sayth Plinius in his seconde booke of the historie of Nature, and. 31. chapter. No more Sunnes are perceiued in oure tyme then three: and they are neuer scene,

about or beneath the Sunne, but on the foresmeane in the night, but onely at the Sunne rising, or going downe.

What is to be chosen or annoyded
vnder euery aspect of the Moone: with her signification in the xviij signes, touchinge the same.

The coniunction, quadrature or opposition of Saturne with the Moone, causeth an euill vntuckye daye for all matters. Leaueth therefore to haue to do anye maner waye: nothinge shall prosper, or come wel to passe then attempted. Yet the Sextile or Trine of Saturne with the Moone, declareth a conuenient to til, delue or digge, to sow, to lay foundations, to erect or repayre houses, yea a meete time to obtaine lutes of fatherlye farmours. The Moone in Capricornus or Aquarius, bringeth this later effect of the Sextile and Trine.

h o □ vel
o cum D.

h * & Δ
cum D

D in v vel

The coniunction, Sextile, Trine, quadrature or opposition of Jupiter with the Moone, sheweth a fortunate daye, chiefly to obtaine lutes of kinges, noble Princes, Prelates &c of Lawpers and Religious parsons: and a meete time to studie, to iourneye, to take an honest matter in hande. The Moone in Taurus, in Leo, or Sagittarius, sheweth the same.

4 o * Δ □
vel o cum D

D in o vel f

The coniunction, Sextile, Trine, quadrature or opposition of Mars with the Moone, warneth the not to matche thy selfe that day with warriours: notwithstanding very good, and most meete to finish all maner fiery workes: nought to iourney: yet most conuenient for valiant Captaynes to worke their feate, to lead, to encourage or to make their souldiours: most vnnmeet to create peace, to take seruantes, or to seeke friendship.

o o * Δ □
vel o cum D

The coniunction, quadrature or opposition of the Sunne with the Moone, declareth a very vnhappye daye for all matters: therefore accept nothing, ne any maner lute: neither plant, build, ne iourney. Yet the Sextile and Trine are very fortunate, specially to obtaine lute of kinges, Princes, and other Nobles. The Moone in Aries enforceth the effect of this latter part.

o o □ vel
o cum D

D in v

A general Prognostication

♀♂*△□
vel ∞ cū D

The coniunction, Sextile, Trine, Quadrature or Opposition of Venus with the Moone, causeth a day most apte to obtaine all suites of women: good to woe, to attempte marriage, and to followe all maner pleasures, and pleasaunt pastimes: not vnmeet to hyre seruantes, to lesse bloude &c. The Moone in Libra or Pisces, promoueth the like.

♀♂*△□
vel ∞ cum D

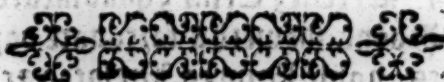
The coniunction, Sextile, Trine, Quadrature, or Opposition of Mercury with the Moone, promisseth a fortunate happy day to buy and sell: very good to enter children into liberall artes: an apt time for the bestiaire: good to vse Marchandise, to iourney, to send Embassage, to geue accomptes and such like.

D in II S
vel my

The Moone in Gemini, Cancer or Virgo, enclyneth to the same afore saide.

D in III S
vel my

The Moone with the Dragons head, sheweth a luckie day for all matters: with the Tayle contrarye.



Now ensueth a Table shewing what signe the Moone is in, and shalbe for euer: Declaring also the meetest time to let Blood, to Purge, and to Bathe.

The Table hath at the head seuen titles. The first Monethes: the seconde Dayes: then the Prime: the twelue Signes: the titles to let Blood, to Purge, and to Bathe.

Here it is to be noted, that those dayes are good for these purposes which be signen with this letter G and those euill dayes, that are noted with B.

This

¶ This Table declareth for ever, in what Signe the Moone is or shall
be at any daye in the yeare. It serueth also verie well
to let Bloud, to Purge, and Bathe.

Monethes.	Daies.	Prime.	The 12. Signes.	To let Bloude	To Purge.	To Bathe.
Febr. Noue.	1	3	Aries.	G	B	G
Marche.	2		Aries.	G	B	G
	3	14	Taurus.	B	B	B
Decembre.	4	6	Taurus.	B	B	B
	5		Gemini.	B	G	
Aprill.	6	17	Gemini.	B	G	
	7	9	Cancer.		G	G
Maie.	8	1	Cancer.		G	G
	9		Cancer.		G	G
	10	12	Leo.	B	B	G
	11	4	Leo.	B	B	G
Iune.	12		Virgo.	B	B	B
	13	15	Virgo.	B	B	B
Iuly.	14	7	Libra.			
	15		Libra.			
	16	18	Scorpius.		G	G
	17	10	Scorpius.		G	G
Auguste.	18	2	Scorpius.		G	G
	19		Sagittarius.	G		G
	20	13	Sagittarius.	G		G
	21	5	Capricornus.	B	B	B
Septembre.	22		Capricornus.	B	B	B
	23	16	Aquarius.			G
Ianua. Octo.	24	8	Aquarius.			G
	25		Pisces.		G	G
	26	19	Pisces.		G	G
	27	11	Pisces.		G	G

A Table for
lettinge of
bloude, &c.

Seeke out vnder the titles of the monethes the name of the moneth, whose daye you must loke out right against the moneth, vnder the title of dayes: and there begin to tell downewar-des, one, two, three &c. to the ende, if it so require, and then from the beginning if neede be, vntill you haue reckened the number of the day that you seeke. Loke what number it falleth vpon in this table vnder the title of dayes: that number keepe in minde. Then seeke vnder the title of the Prime, the Golden number for that yeare: right against that leftward, vnder the title of dayes, begin to tell downewar-des, one, two, three &c. vntill you haue reckoned the number which you did keepe in minde: Against that towards your righte hande, vnder the title of Signes, is the signe wherem the Moone shalbe that daye. Euen then vnder the other titles, ye shall finde in right order for letting blood, for pouging and bathinge, according as they be noted with G. which is good, and B. signifyeth bad.

Ensample.

The first daye of Marche in the yeare of our Lord 1555. I desire to know what celestiall signe the Moone doth then occupye. I finde first the name of the Moneth, that is Marche: and the daye as followeth in the next order of this table. I begin here to tell righte against my moneth at the figure of 2. sayinge one, two, three &c. so I haue at the ende, & compt of sixe dayes this figure 7. which I keepe in minde. Now I must seeke out the Golden number for the yeare aforesaide, vnder the title of the Prime here, that is 17. against the which on the left side is 6. There you must begin againe to compt, one, two, three &c. vntill you come to your number 7. So on your right hande in the rowe, or order, you shall see Virgo the celestiall Signe that the Moone is in: and after that these three letters B which declare bad or euill to let Blood to Purge or Bath, agreeable to the titles in the head. G there had signified good.

For as much as letting of blood, pouging and bathing, inundations, floods, timber falling, sowing, plating, grassing, cutting &c. depend chiefly on the signe wherem the Moone is, which I haue euen before plainely opened, I thought it meete to haue them now orderly touched as followeth.

Acon.

Profitable Rules

The Dominion of the Moone in Mans bodye.

Aries,
Taurus.
Gemini.
Cancer.
Leo.
Virgo.
Libra.
Scorpius.
Sagittarius
Capricornus,
Aquarius.
Pisces.

THE

Head and face.
Necke.
Armes, handes, shoulders,
Brest, stomacke, ribbes.
Harte, backe.
Bowels, bellye.
Raynes, nauil, buttockes.
Secrete members.
Thies.
Knees.
Shinnes, legges.
Feete.

From the chaunge to the first quarter, a meete time to let yong
men bloud.
From the first quarter to the full, good for middle age.
From the full to the last quarter, apt for aged folke.
From the last quarter to the chaunge, best for old men.

Signes meete for complexion.

ARIES. } For the fleumaticke: the heade and thyes excepted.
Sagittarius.
Hec diligē-
tissime ob-
seruare opor-
tet solertū
Medicū, ni-
si maiorape-
ricula co-
gant,
Libra. } For Melancholike: buttockes and legges excepted.
Aquarius,
Cancer.
Scorpius. } For Cholericke: brest, members, & feete excepted.
Pisces,
For the Sanguine, all be apt that tofoze are named good.

In the Spring time, let bloud at the right side.
In Haruest time, at the left syde.

The

The learned Physician will consider, beside all that is saide, the conjunctions, opposition and Quadrate aspectes of the planetes: with many other things, Astronomicall, moſte necessary, both in blood letting, purging, bathing &c.

For to take purgations and to bathe.

The meetest time to takee purgatiōs. &c. is neither in hot nor colde dayes that is from the tenth of Marche, to the twelfth of June.

Further by rules Astronomicall, it must be perfourmed when the Moone is in colde, moist, and watry signes, as Cancer, Scorpius, and Pisces, comforted by aspectes and radiatiōs of Planets, fortifying the vertue of the body expulsive. Good to purg
S m K.

The Moone in Aries, Taurus, and Capricornus, naughte. One cause of vomiting, the purgation is if the Moone haue aspecte to any planete retrograde. Bad to Purge
V & W.

The Moone in these signes following, very good to bathe: Aries, Leo, Sagittarius, Cancer, Scorpius and Pisces. Good to bathe
V S T S m K

These ensuing are euil to bathe, Taurus, Virgo, & Capricornus. Bad to Bathe.
S m W

Of Inundations or floods, of Tim-

ber falling, Sowing, Planting, Graffing, heare clipping, Thawing, and gelding.

The flood is biggest at the full: because then disperſing her vertue, she filleth all places with moisture. By common experience, toynd with learning, I knowe that the full Moone lodeth all bodies with humours: and so are emptied, growyng to the change. Of this, some gather the fall of tymber at the change moze to the purpose then other times, wanting then superfluous moisture, the cause of putrefication. Omnis putredo ab aqueo humido ortum habet. Schoner willeth from the 15. daye vnto the. 22. daye of the Moone, trees to be felled, and that after Midsummer to January. So timber is strong, sound, and boyde of wormes. The fall of
tymber.

To sowe, Taurus, Cancer, Virgo, Libra, and Capricornus, are best in the increase of the Moone. Good to sow
S S m S W

To plant or graffe, is best when the Moone hath her being in any fixed signe, either in Taurus or Aquarius, in the encrease. To plant or
graffe.
S S.

Heare cut groweth well, the Moone encreasing, being in Taurus, Virgo or Libra. To cut heare.
S m S

cutting

A generall Table

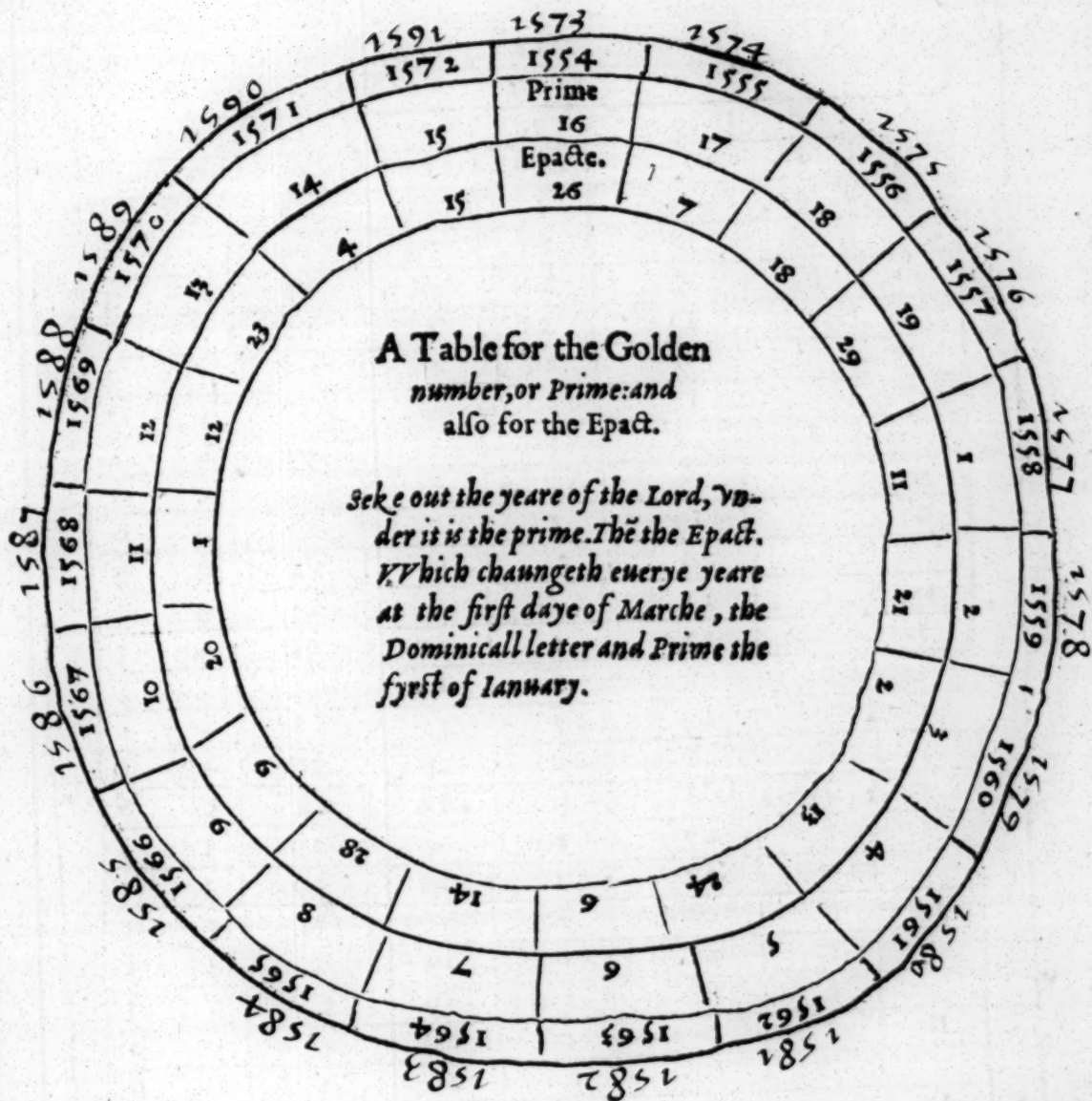
Cutting, hauinge, elliping, in the wane causeth balones, what is then cut groweth litle. Caluitium prohibet oleum Tartari.

The best time of cuttinge is in Cancer, Scorpio or Pisces, in the wane.

These two rounde Tables that now
eusue, conduct to the rest following.



When ye haue gone round about the yeares of these twoo Tables: then begin againe.



Profitable Rules.

The prime.	The sondaies letter.	The first Lent son- daye.	Easter. daye.	Rogas- tion.	whitson- tide.	Betwixt whitsond. & midso.
16		Februarie.	Marche.	April.	Maye.	wek. daies
5	d	8	22	26	10	6 3
	e	9	23	27	11	6 2
13	f	10	24	28	12	6 1
2	g	11	25	29	13	6 0
	A	12	26	30	14	5 6
10	b	13	27	May. 1.	15	5 5
	c	14	28	2	16	5 4
18	d	15	29	3	17	5 3
7	e	16	30	4	18	5 2
	f	17	31	5	19	5 1
15	g	18	April. 1	6	20	5 0
4	A	19	2	7	21	4 6
	b	20	3	8	22	4 5
12	c	21	4	9	23	4 4
1	d	22	5	10	24	4 3
	e	23	6	11	25	4 2
9	f	24	7	12	26	4 1
	g	25	8	13	27	4 0
17	A	26	9	14	28	3 6
6	b	27	10	15	29	3 5
	c	28	11	16	30	3 4
14	d	Marche. 1.	12	17	31	3 3
3	e	2	13	18	June. 1.	3 2
	f	3	14	19	2	3 1
11	g	4	15	20	3	3 0
	A	5	16	21	4	2 6
19	b	6	17	22	5	2 5
8	c	7	18	23	6	2 4
	d	8	19	24	7	2 3
	e	9	20	25	8	2 2
	f	10	21	26	9	2 1
	g	11	22	27	10	2 0
	A	12	23	28	11	1 6
	b	13	24	29	12	1 5
	c	14	25	30	13	1 4

The vse of this Table appointed for the mouable Feastes.

This Table containeth in the firste title the Prime: in the seconde the Dominicall letter, in the third Lent, in the fourth Easterday, in the fifth Rogation daye, in the sixte Whitsonday: in the seventh, howe many weekes and dayes are betweene Whitsonday and Midsummer. Whiche all appeareth by their titles.

Ye shall consider by the litle round Table before put forth, what number the Prime is that yere, wherof ye require to know al these aforesayd, and seeke that number vnder the first title of this Table ensuing. Then seeke vnder the seconde the Dominicall letter nexte after the Prime for that yere: which title ensueth the Prime, directly against the same Dominicall letter towards your right hand in the same lyne, ye shall finde vnder the titles, what Moeth and daye, euery one of these aforesayde shall happen.

Example.

I woulde knowe this yere of our Lorde. M.D.LII. these mouable feastes, the first Lente Sondaye, Easter daye, Rogation dayes, Whitsondaye, and howe many weekes betwixte Whitsondaye, and Midsummer daye. First I finde the Prime this yere xvii. which. xvii. I looke out vnder the title of Prime in the Table before. Then I seeke in the next order, and after the Prime for the Dominicall letter that yere. Nowe in right order, according to the titles, I fynde the thirde of Marche to be the first Lente Sondaye: the. xiiii. of Aprill Easter daye: the. xix. of Maye, Rogation the seconde of Iune, Whitsondaye: and thre weekes, and one daye betwixt Whitsondaye and Midsummer daye. Thus for euer.



Profitable Rules.

Howe to knowe the age of the Moone, then the chaunge and quarter for euer.

First learne the Epact (as I haue instructed) for the yeare ye seeke to knowe the age of the Moone, then reckon howe manye dayes is past of that moneth, whiche daye ye desyre to knowe the age. Put that number to the Epact. Then beginne at Marche, and reckon for euery moneth from him orderly one, vntill your sayde daye, including both the moneth of Marche, and also the moneth of your sayde daye. Adde all these dayes vnto your former number: putting awaye as many .xxx. dayes, as ye finde. The rest is the age of the Moone. The age founde, the chaunge is knowen. If ye adde .vii. dayes to the chaunge, ye haue the first quarter then .vii. dayes and somewhat more, sheweth the Full: and so to it adding .vii. and more, bringeth the last quarter thus by. .vii. vnto the newe Moone.

Example.

The .x. daye of Ianuary, the yeare then being M.D.LII. I desire the age of the Moone. I finde the Epact vntill Marche ensuing, to be .xxvi. that added vnto .x. maketh xxxvi. then a xi. for the monethes from Marche to Ianuary, including bothe Moones, bringeth .xlvii. nowe .xxx. pulled awaye, leaueth .xvii. the age of the Moone.

Nowe ensueth twoo perfect Tables Declaring the true houre and minute of Ebbing and Flowing in moste coastes of Englande.



Q ^{um} South- ampton. Ports: moth.	Reaban Aberdē	Graves ende.	Dūdee. S. And.	Age of the Moon	London Timnot Hertle pole.	Be r: wyke.	Erith. Lyeth. Dūbar.	Falmot
South.	Sbw.	SSw.	Swbs		Sw.	Swbw	WSW	wbs.
H. M.	H. M.	H. M.	H. M.	)	H. M.	H. M.	H. M.	H. M.
12 48	1 33	2 18	3 3	1	3 48	4 33	5 18	6 3
1 36	2 21	3 6	3 51	2	4 36	5 21	6 6	6 51
2 24	3 9	3 54	4 39	3	5 24	6 9	6 54	7 39
3 12	3 57	4 42	5 27	4	6 12	6 57	7 42	8 27
4 0	4 45	5 30	6 15	5	7 0	7 45	8 30	9 15
4 48	5 33	6 18	7 3	6	7 48	8 33	9 18	10 3
5 36	6 21	7 6	7 51	7	8 36	9 21	10 6	10 51
6 24	7 9	7 54	8 39	8	9 24	10 9	10 54	11 39
7 12	7 57	8 42	9 27	9	10 12	10 57	11 42	12 27
8 0	8 45	9 30	10 15	10	11 0	11 45	12 30	1 15
8 48	9 33	10 18	11 3	11	11 48	12 33	1 18	2 3
9 36	10 21	11 6	11 51	12	12 36	1 21	2 6	2 51
10 24	11 9	11 54	12 39	13	1 24	2 9	2 54	3 39
11 12	11 57	12 42	1 27	14	2 12	2 57	3 42	4 27
12 0	12 45	1 30	2 15	15	3 0	3 45	4 30	5 15
12 48	1 33	2 18	3 3	16	3 48	4 33	5 18	6 3
1 36	2 21	3 6	3 51	17	4 36	5 21	6 6	6 51
2 24	3 9	3 54	4 39	18	5 24	6 9	6 54	7 39
3 12	3 57	4 42	5 27	19	6 12	6 57	7 42	8 27
4 0	4 45	5 30	6 15	20	7 0	7 45	8 30	9 15
4 48	5 33	6 18	7 3	21	7 48	8 33	9 18	10 3
5 36	6 21	7 6	7 51	22	8 36	9 21	10 6	10 51
6 24	7 9	7 54	8 39	23	9 24	10 9	10 54	11 39
7 12	7 57	8 42	9 27	24	10 12	10 57	11 42	12 27
8 0	8 45	9 30	10 15	25	11 0	11 45	12 30	1 15
8 48	9 33	10 18	11 3	26	11 48	12 33	1 18	2 3
9 36	10 21	11 6	11 51	27	12 36	1 21	2 6	2 51
10 24	11 9	11 54	12 39	28	1 24	2 9	2 54	3 39
11 12	11 57	12 42	1 27	29	2 12	2 57	3 42	4 27
12 0	12 45	1 30	2 15	30	3 0	3 45	4 30	5 15
North.	N b E	N n E	Neb N	)	N E	Nc b E	E n E	E b N.

Profitable Rules.

Foy Lin. Hüber. weimot. Dertm. Plintot.		Milfo. Bridge water.	Portl. Peter. porte.	Age of the Moone.	Orkn. Pole. Ors wel.	Diep. Lux. Les noys.	Boloig. Douer. Harwick Yarmot.	Calice.
East.	E b S.	EsE	ScbE		SE	Sebs	S s E	S b E
H. M.	H. M.	H. M.	H. M.	)	H. M.	H. M.	H. M.	H. M.
6 48	7 33	8 18	9 3	1	9 48	10 33	11 18	12 3
7 36	8 21	9 6	9 51	2	10 36	11 21	12 6	12 51
8 24	9 9	9 54	10 39	3	11 24	12 9	12 54	1 39
9 12	9 57	10 42	11 27	4	12 12	12 57	1 42	2 27
10 0	10 45	11 30	12 15	5	1 0	1 45	2 30	3 15
10 48	11 33	12 18	1 3	6	1 48	2 33	3 18	4 3
11 36	12 21	1 6	1 51	7	2 36	3 21	4 6	4 51
12 24	1 9	1 54	2 39	8	3 24	4 9	4 54	5 39
1 12	1 57	2 42	3 27	9	4 12	4 57	5 42	6 27
2 0	2 45	3 30	4 15	10	5 0	5 45	6 30	7 15
2 48	3 33	4 18	5 3	11	5 48	6 33	7 18	8 3
3 36	4 21	5 6	5 51	12	6 36	7 21	8 6	8 51
4 24	5 9	5 54	6 39	13	7 24	8 9	8 54	9 39
5 12	5 57	6 42	7 27	14	8 12	8 57	9 42	10 27
6 0	6 45	7 30	8 15	15	9 0	9 45	10 30	11 15
6 48	7 33	8 18	9 3	16	9 48	10 33	11 18	12 3
7 36	8 21	9 6	9 51	17	10 36	11 21	12 6	12 51
8 24	9 9	9 54	10 39	18	11 24	12 9	12 54	1 39
9 12	9 57	10 42	11 27	19	12 12	12 57	1 42	2 27
10 0	10 45	11 30	12 15	20	1 0	1 45	2 30	3 15
10 48	11 33	12 18	1 3	21	1 48	2 33	3 18	4 3
11 36	12 21	1 6	1 51	22	2 36	3 21	4 6	4 51
12 24	1 9	1 54	2 39	23	3 24	4 9	4 54	5 39
1 12	1 57	2 42	3 27	24	4 12	4 57	5 42	6 27
2 0	2 45	3 30	4 15	25	5 0	5 45	6 30	7 15
2 48	3 33	4 18	5 3	26	5 48	6 33	7 18	8 3
3 36	4 21	5 6	5 51	27	6 36	7 21	8 6	8 51
4 24	5 9	5 54	6 39	28	7 24	8 9	8 54	9 39
5 12	5 57	6 42	7 27	29	8 12	8 57	9 42	10 27
6 0	6 45	7 30	8 15	30	9 0	9 45	10 30	11 15
V Vest.	w b n	w n w	n w b w	)	n w	n w b n	n n w	n b w

The vse of these Tables.

Vhen you wil knowe the full Sea, seeke out the name of the place, where you desire the full water, in the head of the Tables: or learne the pointes of the Compasse there noted: Or if you list, know of some Mariner, what Moone maketh a full Sea there, a South west or a South Moone. &c. Then y^e age of the Moone founde vnder the place or point of the compasse, sheweth in righte order the houre & minute of y^e ful water. The ebbe then is manifest.

Example.

I desire to knowe the full water at London bridge, the yeare of our Lord. M.D.LX. the vi. day of February, I finde by rules before put forth the 6. day of February, the yeare aforesaid, y^e Moone to be 14. daies old. I see also vnder the title where Londō is S. W. which letters signifie that a South west Moone maketh a full Sea there, and that is at two of the clocke, and. xii. minutes past. This is well perceined in the first Table before put forth, if you runne downe to the. xiiii. day of the age of the Moone, vnder London title.

A note of the houre of the day and night

The ingenious may gather nere about the houre of the daye & night, by the Moone: consideration had of the pointes in those Tables of tides before noted. For the houre is orderlye put vnder the pointes of the compasse.

Euery part or point containing. II. degrees and $\frac{1}{2}$: this Compasse is well figured nere about the Centre in the Instrument following for the night houre, bicause ye may by it haue a delectable large vse of these tyde Tables.

Howe by the first of the Tide tables, ye

may redily know when the Moone commeth vnto the South, when she riseth and setteth: with her continuance on the earth.

Seeke the age of the Moone (as is opened) then resort to the first Tide table looking out that age there: So vnder that Southe point in right order the houre appeareth, when she commeth vnto the South. Then hath she spent halfe that arke that the Sunne would haue had in that Signe, which pulled away sheweth the rising, that halfe arcke also added to her coming vnto the South, declareth her going downe. The arcke then that the Sunne would haue had in the Signe, is her continuance on the earth.

Profitable Rules.

A Table at all tymes plainly and briefly declaring
the breake of the daye: the houre and minute of the Sunne
rising, the iust length of the day, the length of the night,
also, the very minute of the Sunne setting
and the Twylight.

Monethes	Days.	Break of the day.	Sunne rising.	Lengthe of the day	Lengthe of the night	Sunne setting.	Twylight.	Days.	Monethes.
		H. M.	H. M.	H. M.	H. M.	H. M.	H. M.		
Dec.	10	6	08	117	3716	233	496	0	10
	20	5	588	107	4016	203	506	2	1
Janu.	1	5	548	08	016	04	06	6	20
	10	5	447	498	2115	394	116	16	10
Febr.	20	5	357	348	5215	84	266	25	1
	1	5	157	139	3414	264	476	45	20
Mar.	10	5	06	5610	813	525	47	0	10
	20	4	506	3610	4713	135	247	10	1
Apr.	1	4	206	1911	2212	385	417	40	20
	10	4	06	111	5812	25	598	0	10
May.	20	3	405	4312	3711	236	198	20	1
	1	3	85	1813	2310	376	428	52	20
Iu.	10	2	405	113	5710	36	599	20	10
	20	2	104	4314	339	277	179	50	1
Iul.	1	1	304	2515	98	517	3510	30	20
	10	0	304	1215	358	257	4811	30	10
Aug.	20	Cōtinu:		4	015	598	18	0	1
	1	all day.		3	5116	177	438	9	20
Sept.	10			3	4816	237	378	12	10
		H. M.	H. M.	H. M.	H. M.	H. M.	H. M.		

The vse of this table.

Consider the Moneth and day, that ye require any of the toforesayd: and
seke in this Table that same under the title: procede in ryght ordre,
so ye haue your purpose. If the very day be not founde, take the nearest of
your table. Or by proportion the truthe is geuen: whiche all by
Example folowynge shall playnly be declared.

Minutes to be added to the Length

Example.

The first day of January. I desire all the aforesaid: that is the breake of the daye, the very minute of the Sunne rising, the length of the daye, and also of the night, the Sunne going downe, & the twilight. I finde on the right hand of January, these numbers running downe. 1. 10. 20. which declare the first daye, the x. daye, and twenty of that moneth, Now to my purpose, I require the breake of the daye. &c. The first of January, in the Table vnder that title, on the right hand of this figure 1. I see. 5. houres and 54. minutes. that is 6. of the clocke wanting 6. minutes. The rising of the Sunne in that order, is iust at 8. As this figure 2. there declareth vnder that title in the rowe. The length of the daye. 8. houres, the length of the night 16. houres, the Sunne setting is at 4. the twylight at 6. and 6. minutes. Euen thus for the tenth daye, and also for the twenty of that moneth, in the rowes according to their titles in the head of my tables.

How to worke by proportion when
the day is not founde.

I Would knowe all the aforesaid, the first day of January, I take for ensample the breake of the daye. Remember the first daye of January. I did finde the breake to be at 5. of the clocke, and 54. minutes: and the tenth day I may finde the breake of the daye to be at 5. and 44. minutes, that is 10. minutes lesse. I se nowe ten dayes do geue 10. minutes lesse. I say therfore by proportion the fifth day must geue 5. minutes lesse then 5. houres 54. minutes, which is fyue houres 49. minutes my request. Thus for all the other titles.

The houre of the night by the Moone
is otherwysse founde then before,
and that diuersly.

The houre of her rising knowne as is opened, and a marke then made where she shadoweth in any true fixed or mouable Sunne dial, the houres and minutes from that marke al the night after, are to be added to her rising. If more then 12 surmount, onely that aboue 12. sheweth the true houre and minute. If at the rising she may not be seene, then by the Sunne rising, in that very signe (with help of this Almanack) you may perceiue what houre she would note at her rising. Therfore from that marke counte.

How by the
Moone, the
night houre
is knowen.

Profitable Rules.

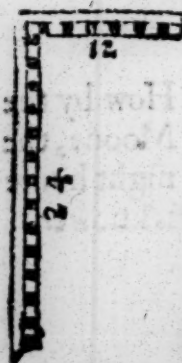
¶ An other waye.

Vhen the Moone is at the full, looke what houre her shadow sheweth in any diall, that is the houre of the nighte. After she be past the full 28. houres, ye must ad one houre. But afore the full, pull one from that ye fynde in the Diall. If it be 28. two houres, &c. So haue ye the houre of the night.

How the houre of the daye by right shadowe, that is by any thing directly standing vp is knowen, and by squire shadow also.

First it becometh you to haue a Staffe, or any other thing deuided in twelue equal partes. When ye list to haue the houre set by directly your deuided Staffe, on a plaine leuell grounde or bourde, &c. Note the iust length of that shadowe, what partes it containeth. With those enter your moneth in the peculier kalender following, beholding diligently vnder the name of that Moneth, the small enclosed tables: considering well, whiche of those small tables are nearest vnto your daye: and that iudge by the signe or day there noted. That table serueth your purpose, where you must loke out the partes of the shadowe afore founde, or nere vnto it vnder or ouer the which the hour is set, before or after noone. Note that two pyckes there signifie halfe a parte more then is noted: one pycke halfe a part lesse. Here it is also to be noted that euery table hath within two rowes of figures, the vpper is for the Staffe, the other for the squire shadowe, and whatsoever is before sayde of the one, that same is ment here of the other, sauing of the composition.

The Squire must be deuided from the inward angle to thende, of one syde, in 12. equall partes, euen so from that angle thother syde into 24. like partes, as this figure sheweth.



The composition of an instrument, for the houre of the night, which is also a perfect Dial for the day & excellent for the Mariner.

The taking of an altitude supposed, I could exactly in fewe (& that without an instrument) satisfie. For want of that knowledge make vpon a playne bourde, or rather fine plate, a circle the bigger the better, parte it into 360. porcions thus.

The

The Circle made, deuide it in. 6. not mouing the compasse: then euery of them in fixe, eche of those laste in tenne, so haue you. 360. partes. Then Character it, beginning at the North thus. 10. 20. 30. &c. as in the figure going towarde the East, and ending at the North with 260. Now laye a Ruler on the centre, euen with some diuisions, drawing thowoe to the extremes of the Circle a lyne. Then crosse that with an other. These twoo must deuide your circle in foure equall partes, which lines shewe the very East, West, North and South, when by a Peridian or square Diall, with a needle rectified, they are placed.

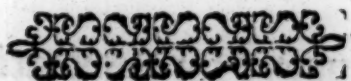
Now to ende, set a smal straight wyre, a foote or more long with a bane in the toppe, plum byright in the Centre, & there fasten it.

Thus this instrument is finished, to be fixed about your house, equidistant or leuell with the Horizon, hauing a needle if ye list in it, truly to place it, when and where you will.

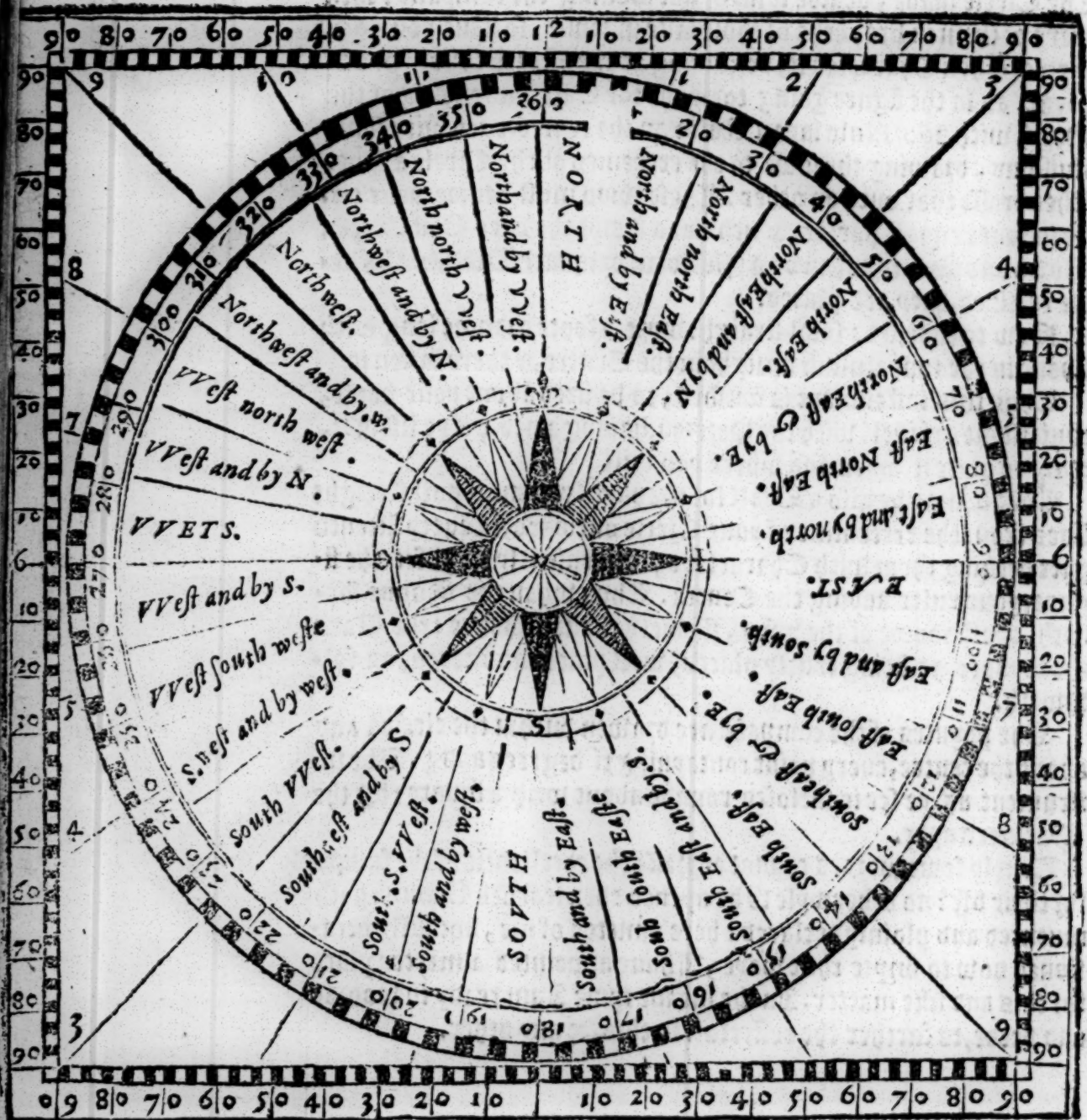
That it may be also a Diall for the daye, you must pull streight lines from the extremitie of your Circle outward, to euery fiftenth part decking them with Characters, conueniently as ye see the figure, your ruler keeping the Centre. Thus when the Sunne shyneth, the shadowe of the wyre, sheweth the true houre: the Plane the wyndes. &c. being truly placed, well placed and rered, as followeth.

The poyntes of the compasse are drawen within the circle, and about the centre, euery point contayning xi. degrees and $\frac{1}{4}$. The instrument as ye see is inclosed rounde about with a square: for the Mariners ayde.

Cruely fewe wordes cannot expresse the excellencie of the square for their vse: no other wyse to be opened then learned Gemma hath inuented and plainly declared: here omitted of me, not fully occasioned now to wyte that waye, I haue appointed a meeter place for this and like matter. In the meane tyme I am ready in woordes and deede, to further the desirefull in this, or any other.



Profitable Rules.



Beholde this Instrument for Navigation most commodious, the vse of the which is here onely put forth according to my inuention.

The right rering and placing of the Diall tofoze mentioned.

Lifte by handfomly your instrument oz Diall towarde the Northe in some mete place, the syde of a Squire lying on it, vntill the plumbmet and lyne, centred in the extreame vpper part of the other side of your Squire like long, cut all that Squire side, which lieth on your instrument, the fift part only except.

In wynter the contrary superficies or playne sheweth the day houer from α to ν .

Then moue your instrument hither and thither, this oz that way, vntill the shadowe of the wyre fall vpon the houre of the daye, keeping diligently your height before your Dyall thus fixed declareth all the yere long, the exact houre and partes therof. No Dyall in truch excelleth this. Haue in remembrance, this instrument must lie leuell, nothing at all rered, for the houre of the night by starre.

To get the exact houre by two starres of the first light with an instrument oz circle, tofoze deuised, first of me inuented, calcu- lated and practised.

The Instrument, equidistantly set and placed as is declared in the composition, ye ought to laye the edge of a ruler vnto the wyre, the other neither ende touching the instrument mouing here and there, styll touching the wyre, vntill eyther Starre doth offer it selfe with that edge, and that by the iudgement of the eye. Then put downe discretely your ruler (euer touching the wyre) the hinder ende not moued, obseruing howe many partes are cut from the North to the edge of the ruler. Enter with them the peculier kalender folowing: seeking out your Moneth, placed in the middes of euery table, then the daye of that moneth must be there founde.

Fit filo aut digito, absq; regula exactissime.

Note that euery table hath on the sides, the dayes thus ordered. 1. 5. 10. 15. 20. 25. 30. Know that order oz rowe of figures, which right against, oz nearest your daye serueth the turne. The number oz parts before cut by the ruler, & nowe founde in that row of your table, sheweth the precise houre. If it be so little, that houre ouer the head oz vnder is not yet come, if contrary it is past.

Profitable Rules.

How these twoo bright starres, being
of the first light are founde: the one called
Aldebaran, or Oculus Tauri, the
other Alramech.

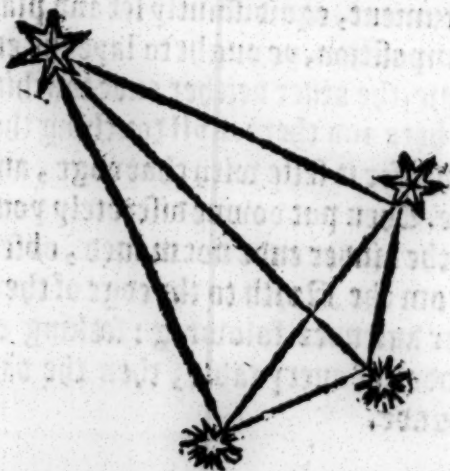
The best waye is thus: The moneth and daye knowen, with
the true houre of the night, entre your table, considering that
moneth and daye, obserue what partes belongeth ther to that
Starre and houre. Then resorte to your instrument, laying the
edge of your ruler, as many partes from the North Eastwarde,
circumspectly lifting vp that edge close by the wyre, so the sayde
Starre shineth euen with that edge.

By what
meanes the-
se starres are
known.

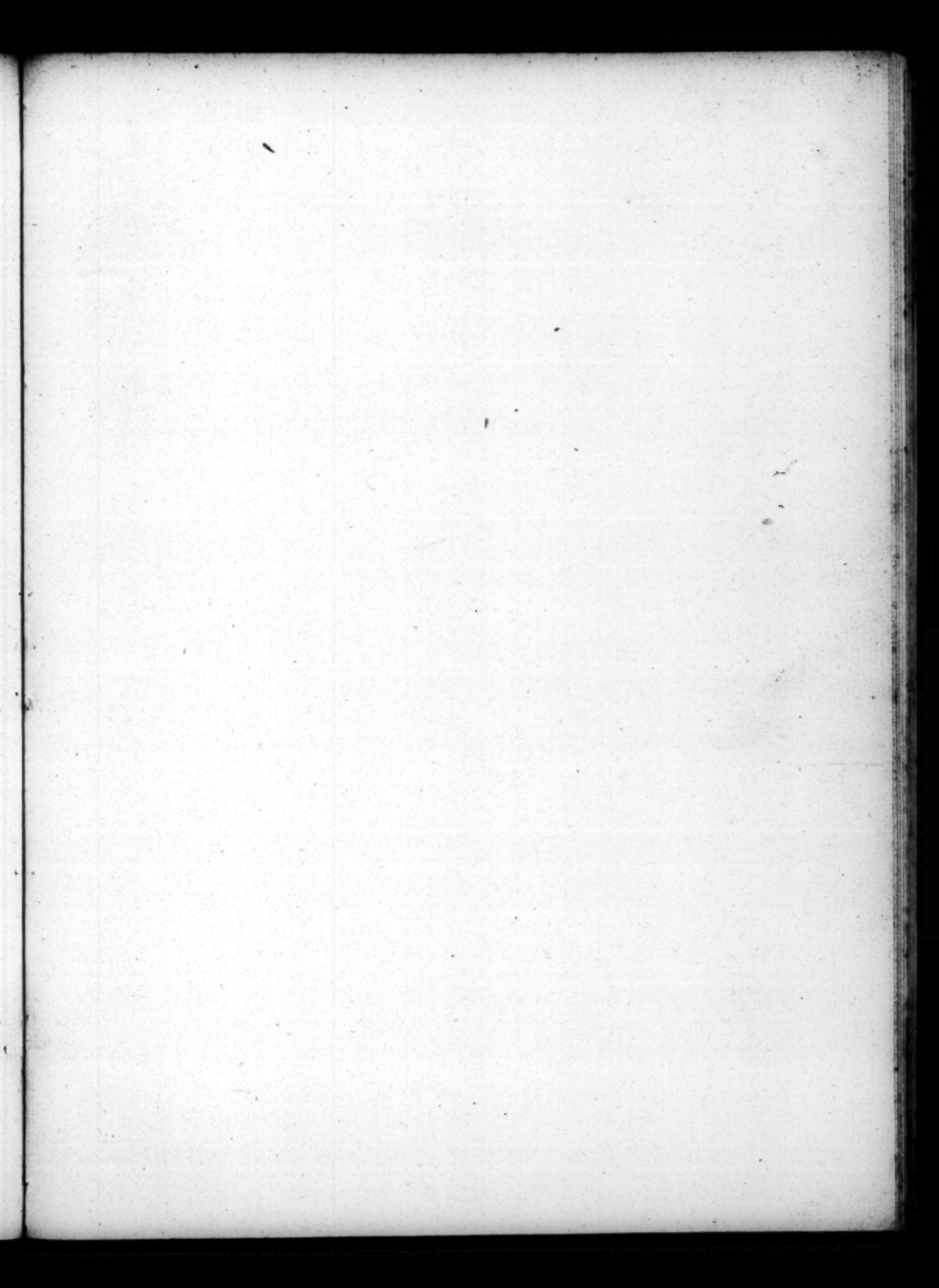
Or thus Grosely.

Oculus Tauri, is euer a meate rod and a halfe to the eye vn-
der theseuē Starres, and somewhat North of them in the
rising, Alramech, is contrary to him placed, accompanied
with three litle dymme Starres, a rod from him by the iudgemēt
of the sight in the forme of a Triangle thus.

An other
waye to find
them.



Beholde this figure, the great Starre represent
Alramech, the other three the triangle which is placed alway
with him, but commonly there doth appeare but one Starre of
the Triangle.



NOVVE ENSVETH

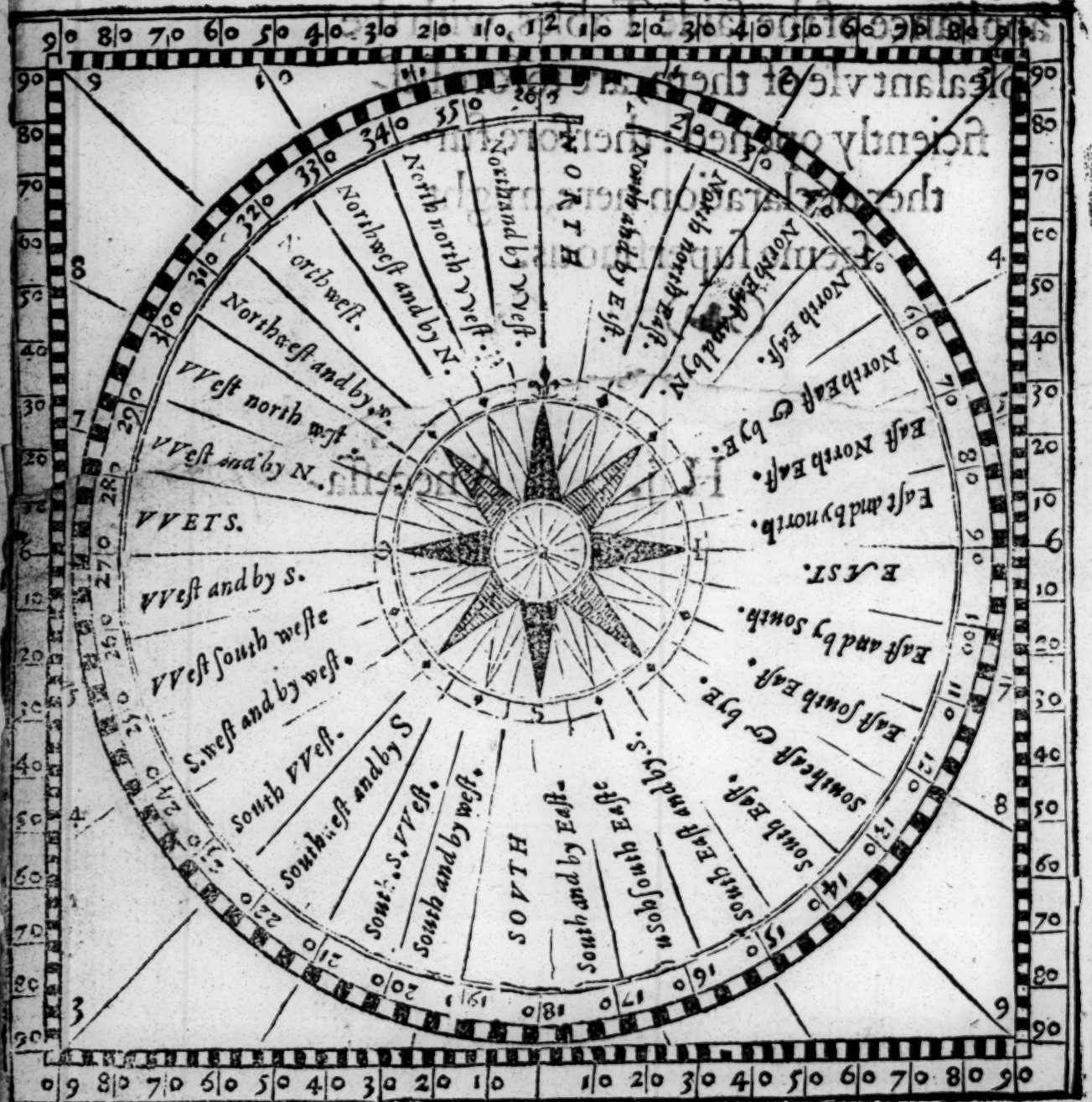
the needefull necessary peculiar Kalēder
tofore mentioned: with Instrumētes be-
longinge thereto. The composition and
appliāce of the saide Tables, with the
pleasānt vse of them, are tofore suf-
ficiently opened: therefore fur-
ther declaration here, might
seeme superfluous.



H. j.

A necella-

A necessarye Instrument to finde exactely the houre of the daye and night, Divers wayes, vvith helpe of this Peculiar Calendar.



The Peculiar Kalendar.

Fol. 29.

	5	6	7	8	9	10	11	12	
1	108	123	143	165	190	211	59	79	
5	112	129	150	172	197	220	63	74	
10	218	136	158	183	206	227	68	78	
15	123	144	166	192	214	233	71	81	
20	130	151	173	199	220	239	75	86	
25	137	158	183	207	228	244	79	90	
30	144	165	191	213	233	249	82	93	
Januarye hath xxxj. dayes.									
	81	93	105	121	143	168	196		
	85	95	110	127	151	177	205		
	89	101	116	135	160	189	214		
	93	105	121	143	169	193	223		
	93	111	128	152	179	207	230		
	101	116	135	159	190	216	235		
	100	111	144	168	193	222	242		
	1	2	3	4	5	6	7		

From evening to midnight.

Oculus Tauri.

Alramech.

For the night.

From midnight unto day.

Alramech.

	12	11	10	9	8	7	H	
10	Staffe	36	39	49	83	155	0	
	Squire	4	4	13	12	0	0	
	H	0	1	2	3	4	5	
20	Staffe	32	34	42	65	209	0	
	Squier	4	4	3	2	1	0	
	H	0	1	2	3	4	5	
30	Staffe	27	29	35	52	119	0	
	Squier	5	5	4	3	1	0	
	H	0	1	2	3	4	5	

For the day.

The Peculiar

Alramech.

Oculus
Tauri.

Alramech

	6	7	8	9	10	11	12	
1	169	194	216	242	273	303	335	
5	174	199	222	244	275	306	338	
10	184	207	228	248	279	310	342	
15	191	214	234	254	285	316	348	
20	198	220	238	258	289	320	352	
25	205	226	243	263	294	326	358	
30								
February hath xxviii. dayes.								
	108	114	124	132	141	151	161	
	111	129	153	180	207	231	251	
	117	136	162	190	216	237	257	
	121	144	169	198	223	243	263	
	128	152	178	206	230	248	268	
	134	159	188	214	236	252	272	
	1	2	3	4	5	6		

For the nights.

From midnight unto day.

From evening to midnight.

	12	11	10	9	8	7	H	
8	Staffe	23:	25	30	42	80	168	96
	Squire	6:	6	15	13	2	0	
	H	0	1	2	3	4	5	
	Staffe	12	11	10	9	8	7	H.
18	Squire	20	21	25	34	61	226	
	H	7	7	6	4	2	1	
		0	1	2	3	4	5	
	Staffe	12	11	10	9	8	7	H.
28	Squire	17	18	22	29	45	112	
	H	8	8	6	5	3	1	
		0	1	2	3	4	5	

For the day.

grx

	7	8	9	10	11	12	3
1	59	70	81	93	105	120	
5	62	74	84	95	108	125	
10	65	76	87	99	113	131	
15	69	80	91	103	118	138	
20	72	83	94	107	123	146	
25	75	86	98	112	129	153	
30	80	90	102	117	136	161	
March hath xxxj. dayes.							
	142	168	195	222	241		
	147	173	201	227	245		
	155	183	210	232	250		
	163	192	218	238	255		
	171	200	225	243	259		
	180	208	231	249	262		
	191	216	237	254	267		
	1	2	3	4	5	6	

From evening to midnight.

Almarech

For the night.

From midnight unto day.

1
5
10
15
20
25
30

For the day.

11

Staffe

Squire

12 11 10 9 8 7

15 | 16 | 19 | 24 | 37 | 74 | |

9 | 9 | 8 | 6 | 4 | 2 | |

H

0 1 2 3 4 5

H

bad.

bad.

0

21

Staffe

Squire

12 11 10 9 8 7 6

13 | 14 | 16 | 21 | 30 | 54 | 221 | |

11 | 10 | 9 | 7 | 5 | 2 | 1 |

H

0 1 2 3 4 5 6

H

bad.

bad.

10 gr. v.

31

Staffe

Squire

12 11 10 9 8 7 6

11 | 12 | 14 | 18 | 26 | 43 | 112 | |

12 | 12 | 10 | 8 | 5 | 3 | 1 | |

H

0 1 2 3 4 5 6

H

bad.

bad.

20

10 gr. v

20

The peculiar

Alramech.

Alramech.

From evening to midnight.

For the night.

From midnight unto day

	8	9	10	11	12	1	2	3
1	92	104	118	138	164	192	220	248
5	94	107	123	145	171	198	226	254
10	98	111	129	153	180	208	236	264
15	101	117	135	160	189	218	247	276
20	106	122	144	158	198	228	258	288
25	111	128	152	178	207	237	267	297
30	117	135	159	189	215	245	275	305
Aprill hath xxx dayes,								
	153	218	239	255				
	199	225	244	253				
	207	231	248	262				
	215	236	253	256				
	223	243	257	270				
	230	248	252	274				
	236	252	266	278				
	1	2	3	4	5			

From Evening to midnight.

1
5
10
15
20
25
30

For the day.

	12	11	10	9	8	7	6	H	
10	Staffe							shad.	0
	Squire	10	11	13	16	23	36			76	1
		14	13	11	9	6	4	2	1
	H	0	1	2	3	4	5	6	
	12	11	10	9	8	7	6	H	
21	Staffe							shad.	10
	Squire	9	9	14	15	21	31			58	267
		16	15	12	9	7	4	2	1
	H	0	1	2	3	4	5	6	
	12	11	10	9	8	7	6	5	H
31	Staffe							shad.	20
	Squire	8	8	10	14	20	28			49	139
		18	17	14	10	7	5	3	1
	H	0	1	2	3	4	5	6	7

gr. 8

	8	9	10	11	12		8
1	117	135	165	195	216		
5	120	142	168	196	222		
10	128	152	178	205	230		
15	134	159	188	214	235		
20	143	163	196	222	241		
25	151	177	206	230	248		
30	160	185	215	239	255		
Maye hath xxxi dayes.							
	257	253	267	278			
	241	256	269	280			
	247	261	273	285			
	252	266	278	298			
	257	270	281	292			
	262	274	285	296			
	266	278	283	300			
	1	2	3	4	5		

From evening to midnight.

Almarch.

From midnight unto day.

For the day.

12 11 10 9 8 7 6 5 H

Staffe 7 8 10 13 17 26 43 100 /bad.

Squire 29 18 15 11 8 3 3 1 /bad.

12 11 10 9 8 7 6 5 4 H

Staffe 7 7 9 12 17 24 39 81 586 /bad.

Squire 21 19 15 11 8 3 3 1 /bad.

12 11 10 9 8 7 6 5 H

Staffe 6 7 9 12 17 24 39 81 586 /bad.

Squire 22 20 15 11 8 3 3 1 /bad.

The peculiar

Alrameche

Alrameche

From evening to midnight

For the night

From midnight unto day

	8	9	10	11	12
1	61	191	216	237	254
5	69	197	223	242	257
10	130	107	231	249	261
15	191	216	237	254	267
20	199	224	243	253	271
25	207	231	249	262	275
30	216	237	254	267	279
Tune hath xxx, dayes,					
	267	279	290	301	
	270	282	292	303	
	284	285	297	308	
	279	290	301		
	283	293	304		
	286	297	308		
	290	301	311		
	1	2	3	4	5

From Evening to midnight

1
5
10
15
20
25
30

		12	11	10	9	8	7	6	5	4	H	} 20 gr. II
I	Staffe										fbad.	
	Squire	6	7	9	12	16	23	37	74	185	fbad.	
		22	20	16	12	9	6	4	2			
	H	0	1	2	3	4	5	6	7	8		

For the day

		12	11	10	9	8	7	6	5	4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	</
--	--	----	----	----	---	---	---	---	---	---	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	----

gr. 99

	8	9	10	11	12			
1	219	239	255	268	280			
5	225	244	259	272	283			
10	233	250	264	275	286			
15	238	254	267	279	290			
20	243	258	271	283	293			
25	249	262	275	286	297			
30	254	267	279	290	300			
Iulye hath xxxj. dayes.								
	290	302	83					
	293	304	86					
	297	79	90					
	301	82	93					
	304	86	98					
	308	89	01					
	82	93	106					
	1	2	3	4	5			

From evening to midnight.

Alramech.

From midnight into day.

Almarech.

Oculus Tauri.

		12	11	10	9	8	7	6	5	4	H		
3	{	Staffe	7 | 7: | 9. | 12. | 16: | 24: 39 82 | 1580								{	shad. 20	gr. 5.
		Squire	21 | 19: | 15: | 12 | 8: 6 | 4 | 2 |										
	H	0	1	2	3	4	5	6	7	8			

For the day,		{	12	11	10	9	8	7	6	5	{	H
	14	Staffe	7	8	10	13	17	26	43	100	{	shad.
		Squire	20	18	15	11	8	5	3	1	{	shad.
			H	0	1	2	3	4	5	6	7	

	12	11	10	9	8	7	6	5	H	} gr. 86.	
24	Staffe	8:	8	10	14	19	28:	49	139		shad.
	Squire	18	17	14	10	7:	5:	3	1		shad.
		0	1	2	3	4	5	6	7		10

gr. 6.

The Peculiar

Alramech

Oculus
Tauri,

Oculus
Tauri.

	8	9	10	11	12			
1	255	267	279	291	302			
5	259	272	284	294	304			
10	263	275	286	297	309			
15	267	279	290	300	311			
20	270	282	292	303	314			
25	274	285	295	306	317			
30	278	288	299	310	321			
August hath xxxj. dayes.								
	82	94	107	122	141			
	86	98	111	126	146			
	99	102	116	132	154			
	93	105	119	138	160			
	96	110	125	144	167			
	100	114	130	152	174			
	104	118	136	158	183			
	1	2	3	4	5			

From evening to midnight.

For the night.

From midnight unto day.

1
5
10
15
20
25
30

For the day.

		12	11	10	9	8	7	6	H		
3	{	Staffe	9: | 9 | 11 | 15 | 21 | 31 | 58 | 267						{	shad.	10 gr. 8.
		Squire	16: | 15 | 12 | 9. | 7. | 4 | 2 | 0								
	H	0 1 2 3 4 5 6 7									
		12	11	10	9	8	7	6	H.		
14	{	Staffe	10: | 11: | 13: | 16: | 23 | 36 | 76: |						{	shad.	0
		Squire	14 | 13 | 11 | 9: | 6 | 4 | 2 |								
	H	0 1 2 3 4 5 6									
		12	11	10	9	8	7	6	H.		
24	{	Staffe	11: | 12: | 14: | 18 | 26: | 43 | 111						{	shad.	10 gr. 11.
		Squire	12 | 12 | 10 | 8 | 5: | 3 | 1								
	H	0 1 2 3 4 5 6									

For the day.

	7	8	9	10	11	12	
1	267	279	290	301	82	93	
5	270	281	292	303	85	95	
10	273	285	295	307	88	100	
15	276	287	293	80	91	104	
20	280	291	302	83	94	108	
25	284	295	305	87	99	112	
30	287	297	80	91	103	117	
September hath xxx. dayes.							
	106	120	139	161	186		
	107	124	144	166	191		
	113	129	150	173	199		
	117	135	155	180	204		
	123	142	164	189	212		
	128	149	171	196	219		
	134	155	180	204	225		
	1	2	3	4	5	6	

For the night.

From evening to midnight.

Alraimech.

Oculus Tauri.

From midnight unto day.

Oculus Tauri.

		12	11	10	9	8	7	6		H
3	Staffe	13	14	16	21	30	54	221		shad. 20
	Squire	11	10	9	7	5	3	0		shad.
	H	0	1	2	3	4	5	6		gr. 17.
		12	11	10	9	8	7			H
14	Staffe	15	16	19	24	37	73			shad.
	Squire	9	9	8	6	4	2			shad. 0
	H	0	1	2	3	4	5			gr. 12
		12	11	10	9	8	7			H
24	Staffe	17	18	22	29	45	112			shad.
	Squire	8	8	6	5	3	1			shad. 10
	H	0	1	2	3	4	5			

For the day.

The Peculiar

Alramech

Oculus
Tauri,

Oculus
Tauri.

For the night.

	6	7	8	9	10	11	12
1	277	288	298	80	92	104	117
5	279	290	302	82	94	107	122
10	284	294	305	86	98	111	127
15	286	68	79	90	102	116	133
20	290	71	82	93	106	121	140
25	294	75	86	98	111	126	146
30	297	79	90	102	116	132	154

From Evening to midnight.

October hath xxxj, dayes,

135	157	181	205	226	243		
141	162	188	210	231	247		
147	170	195	213	237	252		
154	178	202	225	242	256		
162	186	210	230	246	250		
169	194	217	235	251	254		
177	202	224	241	255	268		
1	2	3	4	5	6		

1
5
10
15
20
25
30

4	{	Staffe	12	11	10	9	8	7	{	H	}	20	gr	m.		
			20	21	25	34	61	226								shad.
		Squire	7	7	6	4	2	0								shad.
		H	0	1	2	3	4	5								

For the day.

			12	11	10	9	8	7		
14	{	Staffe	23	25	30	42	79	6896		
		Squire	6	6	5	3	2			
		H	0	1	2	3	4	5		

}

H

shad.

shad.

}

0

gr. m.

24	{	Staffe	12	11	10	9	8	{	H	}	10	gr. m.			
			27	29	35	52	119								
		Squire	5	5	4	3	1								

	5	6	7	8	9	10	11	12	
1	287	298	80	92	104	117	135	159	From evening to midnight.
5	290	302	82	94	107	122	140	163	
10	294	305	87	98	111	127	147	171	
15	298	80	91	103	117	135	156	180	
20	303	83	95	108	123	142	161	187	
25	307	88	100	113	129	150	173	198	
30	81	92	104	119	136	158	183	206	
Nouember hath xxx. dayes.									
From midnight vnto day.	182	205	226	243	257	270	281	292	1
	188	211	231	248	261	273	285	296	5
	196	218	237	252	265	277	288	000	10
	204	225	243	257	269	281	292	000	15
	213	232	248	261	274	285	297	000	20
	220	238	253	266	278	290	127	000	25
	227	244	258	270	282	293	155	000	30
	1	2	3	4	5	6	7	8	

Alramech.

Oculus
Tauri.

Oculus
Tauri.

	12	11	10	9	8	H	
2 {Staffe	32:	34:	42:	65	209		{shad.} 20
{Squire	4:	4	3	2	1		
	0	1	2	3	4		gr. m.
	12	11	10	9	8	H	
13 {Staffe	36:	39	49.	81:	550		{shad.}
{Squire	4	4	3	2	0		
	0	1	2	3	4		
	12	11	10	9	H		
22 {Staffe	40:	45	57	104			{shad.} 10
{Squire	3:	3	2:	1:			
H	0	1	2	3			gr. x.

For the day.

The Peculiar

Oculus
Tauri.

Oculus
Tauri.

Alramech.

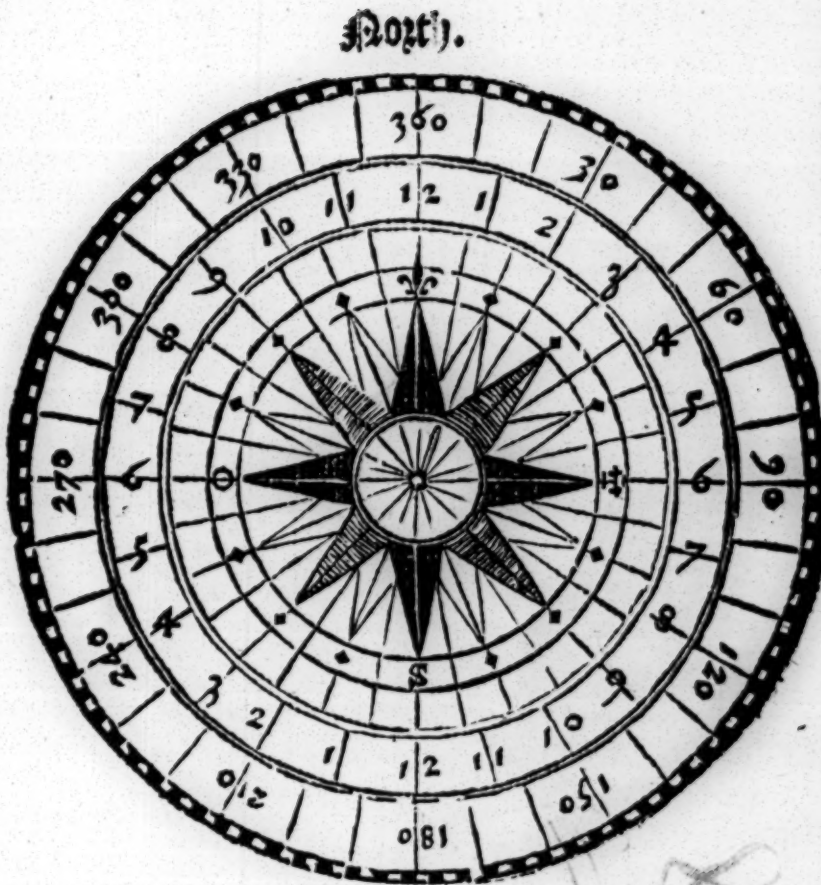
	5	6	7	8	9	10	11	12	
1	81	92	105	119	135	158	183	207	From evening to midnight.
5	84	96	109	124	144	165	192	214	
10	89	111	115	132	153	175	201	222	
15	93	105	120	139	161	186	209	230	
20	98	111	127	147	169	195	217	236	
25	102	116	133	154	177	202	224	242	
30	107	122	141	163	188	211	231	248	
December hath xxxi. dayes.									
From midnight into day.	228	244	258	271	283	293	30		1
	234	249	263	275	286	292	144		5
	240	255	267	279	281	289	153		10
	246	260	272	284	285	298	163		15
	251	264	276	287	284	297	174		20
	256	268	280	291	292	305	184		25
	261	273	285	296	300	315	194		30
	1	2	3	4	5	6	7		

	12	11	10	9	H	
{ Staffe }	43	47	62	122		{ shad. } 20
2 { Squire }	3	3	2	1		{ shad. } gr. 2
{ Staffe }	45	49	65	111		{ shad. } 0
12 { Squire }	3	3	2	1		{ shad. }
{ Staffe }	43	47	62	122		{ shad. } 10
22 { Squire }	3	3	2	1		{ shad. }
{ Staffe }	40	45	57	104	0	{ shad. } 20
31 { Squire }	3	3	2	1		{ shad. } gr. 2
	H	Q	1	2	3	

12
11
10
9
8
7
6
5
4
3
2
1



West.



East.

South.

Thus is ended the Peculiar Kalendar, very commodious for the day and night houre. I haue here adioyned the Instrument vwithout the Square, which may suffice for the whole vse of the foresaid Kalendar, with the helpe of the Squire and Staffe.

to me: G: W: hler

W. H. L.

4

I May not here omit a Kalendar Generall deuised into two partes, wherof the first containeth sixe monethes, from Ianuarie to Iune. The second other sixe monethes, fro July to December. In this Kalendar are set forth the Festiuall dayes, the entring of þ Sunne in the signes celestial, the euil dayes noted with one pycke. For a further declaration of those euil dayes, reade this folowing.

The yeare hath xxxiiij. euill dayes,
generall for euer.

I Anuary hath eight such dayes, the first, the seconde, the fourth, the fifth, the tenth, the fifteene, the seuentene, the twentye nine. Dylucke white wyne this moneth.

February hath thre dayes, the eight, the tenth, the seuentene. These not so euill, the 26. the 27. the 28.

Eate no potage of Dkes, or Palowes, they are venemous.

March thre dayes, the fifteene, the sixtene, the ninetene. This not so euill, þ xxviii. day. This moneth all sweete meates are good.

Aprill two dayes, the sixtene, the xxi. These not so euill, the vii. þ eight, the x the twentye. Use hot meates of lighte digestion.

May thre dayes, the vii. the xv. the twentye. These not so euil, þ thirde, the sixt. Rise early and vse breakfast.

Iune two, the iiii the vii These not so euil, the tenth, þ eleuenth, the xxi Sage and Lettuce are good to eate. cold water fasting hurteth not.

July two dayes, the xv. the twentie. Abstaine from carnalitie.

August two dayes, the ninetene, the twenty. These not so euill, the first, the xxix, the xxx. It hurteth not to abstaine from potage, & all hote meates, and drinckes of spycerye.

September two dayes, the first, the seuenth. These not so euil, the thirde, the 4. the 21. and 22. Eate good fruite.

October one daye, the first These not so euill, the thirde, the xvi. the 24. Good wyne is holsome this moneth.

November two dayes, the 15. the ninetene. These not so euil, the first, the sixt, the 28 and 29. Bled not.

December thre dayes, the vi. the vii. the ninth. These dayes not so euil, the fifteene, the seuentene, the xxi. Bled not ouermuch.

Warne not thy legges at the fire.

¶ Now ensueth the general Kalendar.

The generall Kalender.

The first part of the generall Kalender: from Ianuarie to Iune.

Ianuarie.	Februarie.	March.	Dates	April.	May.	Iune.
:A Circūc.	d	d	1	g	b Phi. Lac.	e
:b	e Purifi.	e	2	A	c	f
c	f	f	3	b	d	g
:d	g	g	4	c	e	:A
:e	A	A	5	d	f	b
f Epiph.	b	b	6	e	g	c
g	c	c	7	f	:A	:d
A	:d	d	8	g	b	e
b	c ⊙ in X	e	9	A	c	f
:c	f	f	10	b	d	g
d ⊙ in ♀	g	g ⊙ in ♀	11	c ⊙ in ♂	e	A B. nra.
e	A	A Spring.	12	d	f ⊙ in II	b ⊙ in ♂
f Hilar.	b	b	13	e	g	c Summer.
g	c Valen.	c	14	f	A	d
:A	d	:d	15	g	:b	.e
b	e	:e	16	:A	c	f
:c	f	f	17	b	d	g
d	g	g	18	c	e	A
e	A	:A	19	d	f	b
f	b	b	20	e	g	c
g	c	c	21	f	A	d
A	d	d	22	g	b	.e
b	e	e	23	A Georg.	c	f
c	f Math.	f	24	b	d	g Ioh. bap.
d Cō. Pau.	g	g Asun.	25	c Mre.	e	A
e	A	A	26	d	f	b
f	.b	b	27	e	g	c
g	.c	.c	28	f	A	d
:A		d	29	g	b	e Pe. Pa.
b		e	30	A	c	f
c		f	31		d	

The generall Kalender.

Fol. 36

The seconde part of the generall Kalender: from Iulie to December.

Iuliy.	August.	Septemb.	Dayes	October.	Novem.	Decem.
g	c Pet. Vin.	f	1	A	d Om. fa.	f
A	d	g	2	b	e Om. ani.	g
b	e	.A	3	.c	f	A
c	f	.b	4	d	g	b
d	g	c	5	e	.A	c
e Dog beg.	A	.d	6	.f	.b	.d Nicol.
f	b	.e	7	g	c	.e
g	c	f Na. Ma.	8	A	d	f Co. ma.
A	d	g	9	b	e	.g
b	e	A	10	c	f	A
c	f	b	11	d	g	b
d	g	c	12	e	A	c \odot in \mathcal{B}
e	A	d	13	f	b \odot in \mathcal{M}	d wynter.
f \odot in \mathcal{Q}	b \odot in \mathcal{N}	c \odot in \mathcal{U}	14	g \odot in \mathcal{M}	c	e
g	c	f Heruest.	15	A	.d	f
A	d	g	16	b	e	g
b	e Dog end	A	17	c	.f	.A
c	f	b	18	d Luc.	g	b
d	g	c	19	e	.A	c
e	.A	d	20	f	b	d
f	b	.e Mathe.	21	g	c	e Tho. ap.
g Ma. mag.	c	f	22	A	d	f
A	d	g	23	b	e	g
b	e Bartho.	A	24	.c	f	A
c Luc. Apo.	f	b	25	d	g	b Na. do.
d	g	c	26	e	A	c Steph.
e	A	d	27	f	b	d Io. euā.
f	b	e	28	g St. Iud.	.c	e Imocc.
g	.c decol. Io.	f Micha.	29	A	.d	f Tho.
A	d	g	30	b	e Andre.	g
b	e		31	c		A

Ex. ii.

The generall Kalender.

Loe the briefe vse of this Generall Kalender.

Efter the Columpne where your moneth is noted in the head, ye shal there finde running downe þ Columpne the Festival dayes of that moneth, the entry of the Sunne in the Celestiall signes, the euill dayes pycked. &c.

I would haue placed in this Kalender the Fayres and Termes, but that cannot remaine continual true. For those that ensue moueable Feastes are moueable, and therefore may haue no certaine place. For þ Termes note these preceptes following The Fayres shalbe declared by two Tables immediatly ensuing, this Kalender generall.

How to know the Termes.

Now therfore that Easter terme alwayes beginneth the 18. daye after Easter, reckening Easter daye for one: and endeth the Monday next after the Ascension daye.

Trinitie terme beginneth the Friday next after Corpus Christi daye: and endeth the wednesdaye fortnight after.

Michaelmas terme beginneth the ninth or tenth daye of October: and endeth the 28. or 29. of Nouember.

Hillarie terme beginneth the 23 or 24. day of Ianuary: and endeth the 12 or 13 daye of Februarie.

A Table containinge the moneth, Fol. 37.

Day and place, of the principall fayres in

England, to be augmented at pleasure in

order followinge.

Fayres in January.

The vi. daye at Bystowe, at Salisbury. The first of Lente at Exeter.

Fayres in February.

The 2. at Bathe, at Weymouth. The 14. at Feversham. On the Wednesday at Lichfield, at Ropstō, at Tamworth. The first mōday in Lente, at Ciciter, at Abingtd. The 24. at Kenley upon Temmes at Leakebury.

Fayres in Marche.

The fourth sonday in Lent at Stamford, at Sudbery. The fift Sonday at Grantam. At Salisbury the Monday before our Lady day. At Walsbych on Palmesonday euen. The 13. at Wye. The 25. at Northampton, at great Chard, at Maulden.

Fayres in Aprill.

The fift day at Walsingford. The 7. at Darbie. The 9. at Bickel worth, at Billincworth, at Casanthe Monday after. The thirde Sondaye after Easter at Louth. The 23. at Charinge, at Ipswich, at Amcill, at Pinigam, at Gillsorde. The 25. at Darbie. The 26. at Centerden.

Fayres in Maye.

The first daye at Stowe the olde, at Reading, at Weymouth, at Leicester, at Chentford. The 8. day at Benerley. On Ascension day at Bympingcham, at S. Eoes, at bishops Stratford. On Whitsondaye at Kingstone vpon Temmes. On Trinitie Sondaye at Rew. l. At Cranbroke the xix. day. The 27. day at Lenham.

Fayres in June.

On Corpus Christi daye at Conentrepe, at S. Eoes, at bishop Stanforth, at Rolfe. The 9. at Weymouth. The 12. at Wpyngam. The 23. at Shrowburpe, at S. Albons. The 24. at Cambridge, at Gloucester, at Lincolne, at Wincloz, at Colchester. The 29. at Wolsler, at Hampton, at Peterborow. The 17. at Folkstone. The 24. at Parisame. The 28. at Peterborne.

A Table

General fayres,

A Table containinge the moneth, daye, and place of the principall fayres of England: to be augmented at pleasure in order folowing.

Fayres in Iulye.

The 11. daye Horsefayer at Dartney, at Nabor, at Felst. The 12. day at Lyd. The 15. at Pinchbacke. The 17 at Winchcom. The 20. at Wylbyrdge, at Cattelby. The 22. at Warleborowe, at Wm-theffer, at Colcheffer, at Teberie. The 25. at Bultow, at Douer, at Chikham, at Ipswicke, at Northampton, at Darby, at S. James by London, at Reading, at Lowth, at Palmesbery.

Fayres in August.

The 1. day at Feterlame, at Dullable, at S. Eden, at Budforch, at Warham Church, at Wiltvitch. The 9 day at Rumney. The 16. at Bedforde, at Fernam, at Strodes, at Blakamore, at S. Lawrence, at Walton. The 24. at Lodon, at Teufoury, at Sudbury, at Norwich, at Northaleto, at Douer, at Rye. The 28. at Ashforde.

Fayres in September.

The 8. day at Cambridge, at Sturbryng, at London in Southwatke, at Shnyde, at Recoluer, at Partnepe thye Lape dayes. The fourtene at Maltanabbey, at Mottō under bebbe, at Smalading. The 21. at Croyden, at Hulden in Holdernes, at S. Comodsbury, at Paulton, at S. Iues, at Valope, at Lanam, at Miltmall, at Sittingborow, at Douer, at Estrie. The 29. at Canterburpe.

Fayres in October.

The 6. day at S. Hithes besides Northwich. The 13. at Granes ende, at Windsor, at Marchfield. The 18. at Elpe, at Braneton, at Charing. The 28. at Warford, at Ciceter, at Newmarket.

Fayres in Nouember.

The 2. daye at Kingstone, at Bleehinglye. The 6. at Nowpore ponde, at Standlye. The 11. at Douer. The 13. at S. Comondsbury. The twentye at Wyth. The 23. at Sandwich. The 30. at Rochester, at Haydenhead.

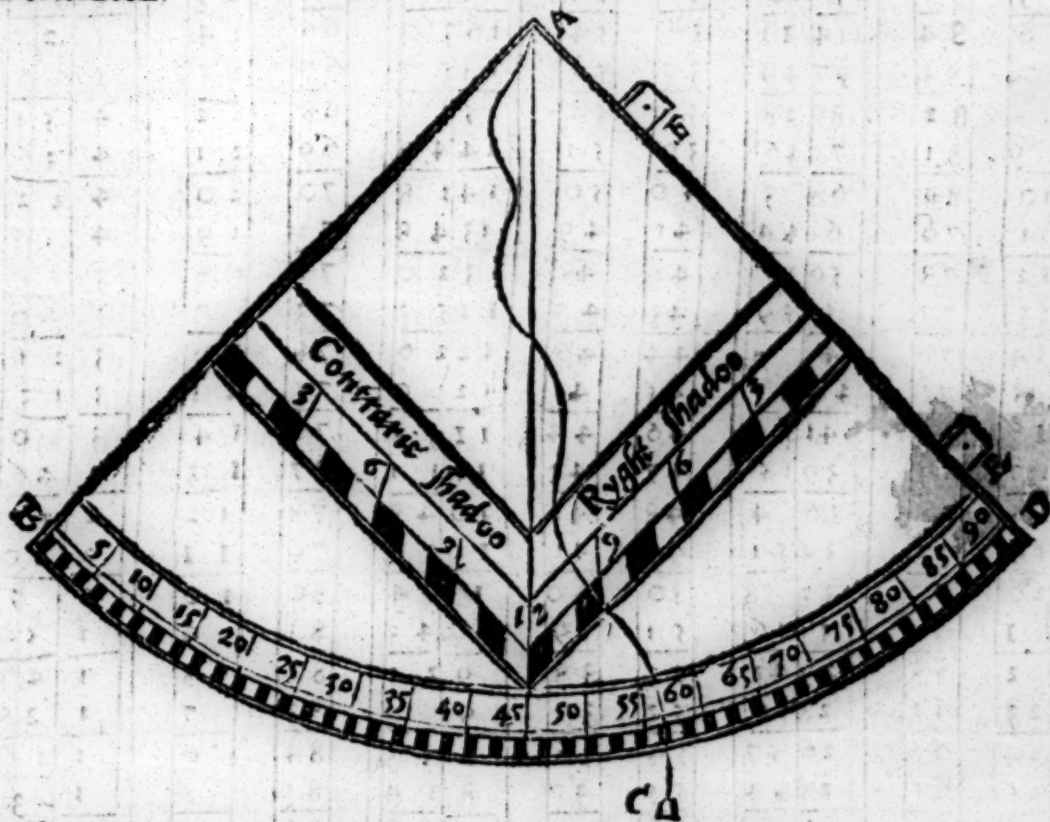
Fayres in December.

The 19. at Cāterburp. The 5. at Pluckely. The 6. at Spalding. The 7. at Sanderst.

Because

Becaufe I vnderſtande many are deſiderous both to get exactly the iuſt length of the ſtaffe and Squier ſhadow befoze treated of, vpon vnleuel grounds, or other wayes whereſoener it be, yea without eyther Squier or ſtaffe, I haue calculated a Table following thowolpe ſatiffying them, ſo that they get the heighe of the Sunne any waye, or as I ſhall now enſtructe.

Behold this Inſtrument called a Quadrant the iuſt fourth part of a Circle, euen ſuch a Circle as I taught you befoze to make for þ night Dial, cōtaining the fourth part of his deuiliſſōs, that is 90. degrees, one lye two ſightes and a plume lyne added, to be placed at þ beginninge of this booke as ye maye ſee. I haue here put the Scale to the Quadrant, which ſeructh well for ſhadowes, and as well for heygheſ. The vſe of this Scale is declared in my booke titled Teſtonicon.



¶ Howe by this Inſtrument to get the height of the Sunne at all times.

Lift vp haſonſly your Quadrane þ Sunne beames pearſinge the ſightes. The Plowmet and Lyne then at libertye falling, noteth there: the degrees of heyghe, at the preſente, with the which that ſhal enter this Table immediatly following, to get then, and in like maner at all other times the iuſt ſhadowe of the ſtaffe or Squier.

A Table

88. *A Table generall of Shadowes, right and contrary: for
every grade of the Sunnes height: The thinge can-
sing Shadowe, supposed 12 partes.*

Heyght of the Sunne.		Staffe. Shadowe.	Heyght of the Sunne.		Staffe. Shadowe.	Heyght of the Sunne.		Staffe. Shadowe.	Heyght of the Sunne.		Staffe. Shadowe.
G	g	P M	G	g	P M	G	g	P M	G	g	P M
0	90	Sham.	30	60	20 47	60	30	6 56			
1	89	687 34	31	59	19 58	61	29	6 39			
2	88	343 43	32	58	19 12	62	28	6 23			
3	87	229 59	33	57	18 29	63	27	6 7			
4	86	171 37	34	56	17 47	64	26	5 51			
5	85	137 10	35	55	17 8	65	25	5 36			
6	84	114 15	36	54	16 30	66	24	5 21			
7	83	97 49	37	53	15 52	67	23	5 6			
8	82	85 28	38	52	15 21	68	22	4 51			
9	81	75 46	39	51	14 49	69	21	4 36			
10	80	68 3	40	50	14 18	70	20	4 22			
11	79	61 44	41	49	13 48	71	19	4 9			
12	78	56 27	42	48	13 20	72	18	3 54			
13	77	51 59	43	47	12 52	73	17	3 40			
14	76	48 8	44	46	12 26	74	16	3 26			
15	75	44 17	45	45	12 0	75	15	3 13			
16	74	41 58	46	44	11 33	76	14	3 0			
17	73	39 15	47	43	11 1	77	13	2 46			
18	72	36 4	48	42	10 49	78	12	2 32			
19	71	34 51	49	41	10 26	79	11	2 20			
20	70	32 58	50	40	10 4	80	10	2 7			
21	69	31 16	51	39	9 43	81	9	1 54			
22	68	29 42	52	38	9 22	82	8	1 41			
23	67	28 16	53	37	9 3	83	7	1 29			
24	66	26 57	54	36	8 43	84	6	1 16			
25	65	25 44	55	35	8 24	85	5	1 3			
26	64	24 37	56	34	8 6	86	4	0 50			
27	63	23 3	57	33	7 48	87	3	0 38			
28	62	22 34	58	32	7 30	88	2	0 25			
29	61	21 40	59	31	7 13	89	1	0 12			
30	60	20 47	60	30	6 56	90	0	0 0			
Heyght of the Sunne.		Square Shadowe.	Heyght of the Sunne.		Square Shadowe.	Heyght of the Sunne.		Square Shadowe.	Heyght of the Sunne.		Square Shadowe.

The vse of this Table and first for Staffe Shadowe.

Example.



Suppose the height of the Sunne taken by the Quadzant. 34. degrees, nowe I require the exact length of Staffe and Squire shadowe. For right shadow, first seeke out the degrees in the left part of the table and vnder this title the height of the Sunne: if they be not in that leste rowe downewarbes, resort to the next rowe and like title, vntill ye finde the degrees then in right order toward the right hande, in the next columpne, vnder the title of Staffe shadowe, are. 17. partes and 4 7. minutes, your desire.

For Squire shadowe, titled contrary shadowe.

Seeke your degrees in the right parte vpwarde at this title Height of the Sunne, in the bottome of this table then shall ye finde on the right hand of 34. degrees in the next Columpne 8. partes and 6. minutes, that is the very length of Squire shadowe, when the Sunne is. 34. degrees in height.

Occasioned I cannot here omit an other table faithfully supputated for the Sunnes Altitude, by the whiche with quicke speede the houre is knowne. This table conducteth manifold wayes, yet to the composition of diuers and many Instrumentes: as Quadzantes, Nauicles, Cylindres, Ringes. &c

Beholde nowe it doth ensue, and also the
briebe vse of it.

**A Table of the Sunnes altitude, for every houre the Pole mounted, 51. degrees
30. Minutes, exactly calculated.**

houres before n. houres after n.			12	11	10	9	8	7	6	5	4
St. G S G			G	M	g M	g M	g M	g M	g M	g M	g M
30	59	0	62	0	59 43	53 45	45 42	36 42	27 23	18 11	9 28
25		5	61	54							
20		10	61	37	59 21	53 26	45 24	36 25	27 6	17 54	9 9
15		15	61	9							
10		20	60	30	58 17	52 28	44 32	35 35	26 16	17 3	8 16
5		25	59	41							
0	58	0	58	42	56 34	50 55	43 6	34 13	24 56	15 41	6 50
25		5	57	34							
20		10	56	17	54 15	48 48	41 10	32 22	23 6	13 50	4 55
15		15	54	52							
10		20	53	21	51 26	46 12	38 46	30 6	20 52	11 34	2 34
5		25	51	43							
0	50	0	50	0	48 11	43 11	35 53	27 27	18 1	8 59	0 0
25		5	48	12							
20		10	46	20	44 37	39 51	32 53	24 32	15 27	6 8	0 0
15		15	44	25							
10		20	42	28	40 51	35 18	29 34	21 24	12 25	3 6	0
5		25	40	29							
0	38	0	38	30	36 58	32 37	26 7	18 8	9 16	0 0	
25		5	36	30							
20		10	34	32	31 4	28 55	22 38	14 51	6 7	0 0	
15		15	32	35							
10		20	30	40	29 16	25 18	19 14	11 33	3 22	0	
5		25	28	48							
0	27	0	27	0	25 40	21 51	15 59	8 34	0 6		
25		5	25	17							
20		10	23	30	22 22	18 42	13 1	5 45	0 0		
15		15	22	8							
10		20	20	43	19 29	15 55	10 23	3 17	0		
5		25	19	26							
0	18	0	18	18	17 6	13 38	8 13	1 15			
25		5	17	19							
20		10	15	30	14 48	11 55	6 35	0 0			
15		15	15	51							
10		20	15	23	14 13	10 52	5 3	0			
5		25	15	6							

When the Sunne entereth the 22 grade of Scorpio toucheth our Horizon
4. in the morning Entering the 22 of Taurus toucheth at 8 in the firste
at 5 in the first of May at 7. Note in all my tables, one pricketh
following the Minutes diminisheth: two, au gmenteth
some make quantitie.

The brieue vse of this table.

Suppose the height of the Sunne taken by the Quadrant eight degrees and 13. minutes, the Sunne being in the beginning of Aquarie or Sagittarie, I seeke and fynde in this table and in the rowe whiche directly aunswereth ∞ and \times eight degrees and 13. minutes: that is agreeable to nyne or thye of the clocke in the head of this table. Therfore I pronounce that when the Sunne was eight degrees and 13. minutes in height, entering ∞ or \times , it was precise nyne of the clocke in p morning, or thye at after noone. Thus at all tymes ye may knowe the iust houre.

Ye may also conclude the height of the Sunne at all times, the place of the Sunne knowen, and the houre. Note when the precise numbers either of height or degree of the Sunne, are not founde in the table, then make proportion according to the difference, &c. Practise better then many wordes openeth this, Nowe to ende this matter, this following to him that hath tasted these knowledges I wyte.

Dato loco Solis & eius altitudine,
horam ipsam calculare.

DVc sinum inuente solaris altitudinis, in sinum arcus semi-diurni, & productum diuide per sinum altitudinis meridianæ eiusdem Solis, & prouenientis inde partium numeri sumito arcum, quem tandem in horas vertas: collectus horarum numerus quesitam indicabit horam; ab ortu quidem Solis, si altitudo fuerit ante meridianam, vel ab occasu, si eadem Solis altitudo acciderit post meridiem.

Now hauing some occasion, I could here adioyne a brieif Supputation Sinical, touching most working Astronomical, but how farre that passeth the capacite of the common sort of men, they p be trauailed know. For this cause I leave to geue any preceptes this way: desiring prouocation mete to haue to do in the like: then God suffering my penne, shall not staye to open ready chosen generall wayes, for pleasant Astronomicall operation.

Here shall now we followe brieifly collected certayne rules performed before by Tables, but now done by quicke supputation, to be had in memozy, by that auoyding cariage or burthen of bookes.

Briefe

A waye to get the Golden number, or Prime without a Table.

A Doe unto the yeare of our Lorde 1. then deuide that summe by 19. the remaine is the Prime, or Golden number.

The Epact is thus euer founde.

M Multiplie the Prime by twelue. deuide by 30. the remaine is your desire. These two numbers begin at Marche, there use is chiefly to fynde out the Chaunge, Quarters, & full Moone, as ensueth.

A Rule for the Chaunge, Full, and Quarters, of the Moone.

P At unto the Epact all the Monethes from Marche including the moneth of Marche: pull then that summe from. 30. the remaine sheweth the daye of the chaunge.

Here note the full Moone is the 15. daye after the chaunge. Also if the remaine be lesse then. 15. subtract that lesse from. 15. the rest is the full Moone.

If there remaine passe. 30. subtract it from. 45. then the full doth also appere.

To conclude, if from the full Moone ye pull. xv. dayes, hauing the chaunge going before. The chaunge had, the quarters are knowne by adding or pulling away seuen dayes.

For the age of the Moone, worke thus for euer.

A Doe to the dayes of your moneth & Epact, & also as many dayes more as are monethes from Marche to your Moneth, including both monethes: Now subtracte. 30. if ye may, the age then remaineth.

Nowe shalbe declared what signes and degrees the Moone differeth from the Sunne, by whiche is gathered at all times the signe and grade wherein he is.

Multiplie

Multiply the age of the Moone by foure, deuide by foure, the Quotient sheweth the signes that the Moone differeth from the Sunne. The remaine augmented by three, bringeth degrees to be added, ye must put these signes and degrees to the place of the Sunne, the product then I meane the increase or ende of all these signes and degrees, in order counted from the Sunne, declare the place of the Moone in the Zodiacke.

The place of the Sunne in the Zodiacke, is thus founde.

First knowe that the eleuenth daye of January, the Sunne is entred α . the tenth of February κ . The xi. of Marche γ . The xi. of Aprill δ . The xii. of May η . The xii. of Iune ζ . The xiii. of Iuly ν . The xiiii. of August π . The xiiii. of September ϵ . The xiiii. of October μ . The xii. of November ρ . The xii. of December θ .

This knowen, the place of the Sunne is well founde, adding for euery daye past any entry one degree.

Example.

If Require the place of the Sunne the xxi. day of August. I fynde that the Sunne is entred in π , the fourteenth day of the moneth. I must for euery daye past any entry adde one degree. There are seven dayes past that entrie, then I conclude the Sunne ready to haue place in the eight degree of π , the xxi. of August.

To knowe howe long the Moone shyneth.

For her shining, in the encrease multiplye the age of the Moone by foure. In the wane augment the rest of the age whiche shee lacketh of thirty, by foure, and deuide by five, the Quotient sheweth the houres: the remaines if there be anye, multiplied by xii. bringeth minutes to be added.

How the moueable feastes are founde readely.

Seeke the change of the Moone in February, for that yeare ye require these mouable feastes. Note what daye it falleth on the next Tuesday is Shrouetuesday. But if the change be on Tuesday, then the next Tuesday ensuing it is. The next Sunday is the first Sundaye of Lent. Sixe Sundayes after is Easter daye. Adde 35. dayes or five weekes to Easter daye, ye haue Rogation sonday. To that adde foure dayes, so haue ye Ascension daye. Then haue ye tenne to Whitsonide. Seuen dayes after is Trinitie Sondaye. And foure dayes after is Corpus Christi daye.

VVithout Tables at all times to knowe the Tydes.

Learne as is declared the age of the Moone, also remeber the houre of the full, or change, for your place or poynte whiche doth neuer varye, these knowne worke thus.

Example.

VWhen the Moone is x. dayes olde, I desire to knowe at what of the clocke it is full Sea at London brydge. Multply x. by 48. so haue ye 480. deuide that by 60. so haue ye viii. houres. to that adde thre which is the houre of the full or change appointed for that place. All then commeth vnto xi. of the clocke highe water at London brydge. If any thing remayne, they are minutes of an houre. If the houres amouite aboue xii. cast the twelues away, the rest is your request.

FINIS.

Imprinted at London in Fletestrete,
neare vnto S. Dunstones Church, by

Thomas Marlie. Anno.

1574.